



Patient Care Encounter (PCE)

User Manual

Clinical Reminders

Chapter 10 & Appendix A Replacement Pages

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Chapter 10: Clinical Reminders

This chapter provides an overview of how you can use clinical reminders along with related tools and technology to help clinicians provide better patient care.

This chapter reviews:

- Relationships between PCE, encounter forms, health summaries, and clinical reminders.
- Encounters and encounter forms, along with the considerations you need to keep in mind when designing encounter forms.
- Health summaries
- Clinical reminders set-up
- Clinical reminders benefits

NOTE: This chapter has been extensively rewritten, based on experience and suggestions from users, especially Elizabeth Williams, MAS ADPAC, and Marcy Jerome, Clinical coordinator, at the Saginaw VAMC.

Patch 16 Functionality Changes

Patch 16 contains the following functionality changes and additions. For more details, see the Release Notes for this patch.

1. Nothing will be displayed on the Clinical Maintenance Health Summary Component if the reminder is Not Applicable (N/A) for specific reasons. As of this patch, the allowable reasons are wrong sex and wrong age.
2. Changes to Taxonomy Findings, Health Factor Findings, and Computed Findings. Each of these have changes which may be used to control how the reminder works.
 - ◆ **USE IN DATE DUE CALC (Optional):** This allows the reminder to use a match on a Taxonomy Finding, Health Factor Finding, or Computed Finding as a result which is included in the determination of when the reminder is due.
 - ◆ **RANK FREQUENCY (Optional):** This field is used to rank the frequency and age ranges that are associated with Health Factor Findings, Taxonomy Findings, and Computed Findings, when 1) more than one match is found among Taxonomy Findings, and/or Health Factor Findings and/or Computed Findings, and 2) more than one of the Findings definitions has its own age range and frequency. The rank is used to establish a priority or ranking that tells the reminder logic which age range and frequency should take precedence.
 - ◆ **USE IN APPLY LOGIC (Optional):** This field allows the user to indicate that a Taxonomy Finding, Health Factor Finding or Computed Finding should be included as part of the Apply Logic. The Apply Logic is used to determine whether or not a reminder should be applied (given) to a patient. This is very useful for those situations where a reminder should only be given to, or NOT given to patients with a particular Taxonomy, Health Factor, or Computed Finding on file.
 - ◆ The Default or User Modified APPLY LOGIC is now viewable by the users in the *Inquiry* and *List Reminder* options.
 - ◆ Addition of health factors which can be used to inactivate a reminder for a patient. Each reminder may have its own **INACTIVATE** and **ACTIVATE** health factor. All of the activate and inactivate health factors are defined as part of the **REMINDER FACTORS** health factor category. (See Appendix A-6 in this manual for further explanations of these health factors.)
3. Changes to VA-* prefixed Reminders, and Ambulatory Care EP Definitions (VA-Prefix).
4. New distributed reminder definitions and taxonomy entries.

A. Overview

Where Does the Data for Reminders Come From?

Clinical reminders depend upon patient clinical information collected from a variety of sources, using manual data entry, automated data capture tools, and/or ancillary service activities.

This table shows some of the sources of patient data for clinical reminders.

User source	Type of data	Package
Checkout clerks	Encounter data on encounter form or Progress Note	AICS, PCE, Scheduling
	Historical information noted on the encounter form	PCE
Practitioners	Encounter data on encounter form	AICS, PCE
	Historical information	PCE
	Vitals	Vitals
	Text notes are not usable directly by the reminders; but clinical reminders can make use of text data if clerk reads and manually enters data	Progress Notes, Discharge Summary or TIU
Ward Clerks	Encounter data from Inpatient Stay	PIMS ADT summary in PTF file.
MCCR personnel	Data entered to complete an encounter for billing and workload credit	Scheduling, PCE
Transcript-ionists	Transcribed text is not usable directly by the reminders, but clinical reminders can make use of coded data extracted and manually entered	Progress Notes → PCE, Radiology → PCE, Discharge Summaries → PCE and ADT, Cytopathology → PCE
Ancillary service practitioners	Record results from procedures and automatically update PCE upon verification of results	Laboratory → PCE, Radiology → PCE, Surgery → PCE Event Capture→ PCE

Manual Data Entry

Manual data entry is one way to record patient care encounters. The data entered provides the when, why, what, and who information related to a patient encounter:

- ◆ Encounter location and date/time
- ◆ Diagnoses treated
- ◆ Procedures performed
- ◆ Practitioner(s)

Historical information about encounters can be entered using the *Encounter View* action in PCE data entry options to make the patient record more complete. Data capture requirements for historical data are minimal. The historical encounter data is not used for billing and workload. No provider is required and entering only a diagnosis or procedure is okay. Immunizations, pap smears, mammograms, surgeries, etc., done elsewhere may now be recorded and used by the clinical reminders. This includes other VA Medical Centers and non-VA locations (Health Department, private office, etc.).

Automated Data Capture

Scanned encounter forms can be used to capture encounter data relevant to clinical reminders. If the reminders are to be accurate, the forms must capture the data they need.

It is a challenge to keep the forms as simple as possible while still meeting information capture requirements. This may be done by combining information such as immunizations and skin tests with other required preventive procedures and assigning appropriate CPT codes so they will be captured correctly.

There is no perfect encounter form. Everyone who uses these forms will have ideas about how to make them perfect. They need to be carefully designed to meet *most* of the users' needs, while capturing information for workload and billing purposes. You can't capture everything for everyone on one form.

How do Clinical Reminders and Health Summary packages use the data?

Reminder items are added to health summary selection components for a given health summary type. When the health summary type is run, the Clinical Reminders software evaluates the patient's data and returns the results to the health summary for display.

Health Summary Reminder Components

- ◆ *Clinical Reminder*: an **abbreviated** component indicating only **what is due now**.

Name of reminder
Date last done
Date next due

The clinical reminder displays on the health summary as follows:

<u>Reminder</u>	<u>Next</u>	<u>Last Done</u>
Mammogram	10/1/98	10/1/96
Pap Smear	Due Now	Unknown
Diabetic Eye Exam	10/1/98	10/1/97

- ◆ *Clinical Maintenance*: this component provides:
 1. Details about what was found from searching the **VISTA** clinical data.
 2. Text related to the findings found or not found (as defined in the reminder). This includes taxonomies (ICD or CPT codes), health factors, and test results related to the reminder and computed findings (e.g., Body Mass Index).
 3. Final frequency and age range used for the reminder.

The advantage of clinical maintenance over clinical reminders is that it includes related test results, health factors, and logic related to that reminder.

Example of *clinical maintenance* as displayed on a health summary:

<u>Reminder</u>	<u>Next</u>	<u>Last Done</u>
Hemoglobin A1C	11/1/97	11/1/96
11/1/96 - <u>Problem Diagnosis: 250-Diabetes</u>		
HbA1C <u>required yearly for diabetic patients</u>		
11/1/96 Lab procedure: HbA1C; <u>results 9.6%</u>		
<u>Final frequency and age range used: 1 year for diabetic patients</u>		

Health summaries and reminder definitions can be tailored to suit clinicians needs. Some health summaries are defined by users themselves and some are

designed for generic use. Many kinds of information can be displayed on a health summary. You can define one which is very detailed so that it could be used in place of a paper chart. Most sites use the health summary to supplement the paper chart, based on the clinic and provider's preference for health summary content.

Clinician's Role in Clinical Reminders

The clinician plays an important role in Clinical Reminders. He/she will be asked to assist the Clinical Coordinator in selecting which reminders to implement and in defining the clinical aspects of the Clinical Reminder Definition Worksheets, including:

- ◆ Baseline Age Findings
- ◆ Reminder Frequency
- ◆ Minimum and Maximum Age
- ◆ Health Factors, Taxonomies
- ◆ Related Lab and Radiology Tests
- ◆ Computed Findings.

Clinicians may also have clinical reminders customized for their needs.

The clinician also plays a major role by appropriately marking the reminder health topics on the encounter forms. As exams, tests, immunizations, screening, and education are given, the boxes must be marked so that the information can be entered into the computer by the clinician or clerk, or picked up by scanners and passed on to PCE to satisfy the clinical reminders.

Historical encounters can be entered for patient visits that occurred sometime in the past (exact time may be unknown) or at some other location (possibly non-VA). They are used to satisfy reminders and determine next date due.

Most important, clinicians will make use of clinical reminders and clinical maintenance to enhance patient care, by assuring timely completion of appropriate tests, immunizations, exams, screenings, and education.

How does the Clinical Reminders software helps to meet Clinical Guidelines, NCHP, performance indicators, and preventive medicine mandates?

Make the most of your clinical reminders!

The National Center for Health Promotion (NCHP) has defined a set of 15 reminders that represent the minimum that sites must report on yearly to comply with Congressional law. The Ambulatory Care Expert Panel has defined 22 reminders that they recommend. The NCHP reminders are prefixed with VA-* and the EP reminders with VA-. Any of these reminders that meet your site s requirements may be used *as is*. If your site requires a reminder that is not met by one of the distributed reminders, you can create your own. It is usually easiest to start by copying the existing reminder that is closest to what you want.

You may wish to review VHA Handbook 1101.8 Health Promotion and Disease Prevention Program (RCN 10-0666), VAMC Outpatient Performance Indications, and Clinical Guidelines as resource materials when deciding what reminders you need.

Create a Preventive Medicine Health Summary or add reminder and maintenance items to existing health summaries. You can print health summaries and provide them to clinicians for all scheduled visits, or show them how to view them on their computer monitors. A clinician may use the ADHOC health summary to review individual maintenance or reminder information.

When reviewers visit your medical center, make these summaries available to them. Feedback from reviewers who have used these health summaries during their reviews has been very positive.

PLEASE NOTE: Clinical reminders and clinical maintenance do *not* satisfy documentation requirements. Documentation supporting these reminders must still be made on progress notes, doctor s orders, etc.

B. Implementing Clinical Reminders

Tips on how to get started with clinical reminders and clinical maintenance from a Clinical Coordinator s perspective

Clinical reminders are created or modified by using a combination of PCE Table Maintenance options, Clinical Reminder Maintenance options, Taxonomy options, Health Summary s *Create/Modify Health Summary Type* option, and AICS Encounter Form options.

Follow the steps below, as applicable, to implement Clinical Reminders.

1. **Ask IRMS staff to assign you the PCE Table Maintenance Menu and the PCE Reminder Maintenance Menu.** If you are a technical user, you may want to ask IRMS to add the PCE Reminder Test option as a secondary menu option.
2. **Refer to Appendix A for clinical reminders guidelines and worksheets.** Gather the following:

Appendix A-1, Start-up Process for Implementing Reminders
Appendix A-3, Clinical Reminder Definition Worksheet
Appendix A-4, PCE Clinical Integration Worksheet
Copy of VA Performance Indicators
Copy of VHA Handbook 1101.8

Use a list of PCE Reminders/Maintenance items, health factors, and taxonomies for referral as you are working. The distributed reminders and taxonomies are listed in Appendixes A-8 and A-9. (Options to print these are located on the PCE Reminder Maintenance Menu, if you need more copies.)

3. **Identify the reminders that your site wants to implement.**
 - a. Review reminder definitions with appropriate clinical staff and determine any reminders that will need editing.
 - ◆ If you are going to use the distributed reminders *without* making any changes, you won t need to copy them. For example, immunizations, skin tests, and blood pressures can be used as exported. If you wish to make changes (e.g., frequency, age range, health factors), copy the exported reminder and edit it.

- ◆ If no distributed reminder provides exactly what you require, you will need to create your own local reminder. It is usually easiest to start with the distributed reminder that is closest to your requirements. Copy it to a local reminder using the *Copy Reminder Item* option, and then edit the new reminder to meet your site's needs. An example of copying and editing a reminder is at the end of this chapter.

☞ **NOTE:** The VA- prefix designates the nationally distributed set. (Sites are not allowed to use the VA- prefix in the names of locally defined reminders.) Reminders with the VA-* prefix represent the minimum requirements as defined by the National Center for Health Promotion (NCHP).

- ◆ You will always need to copy and edit the following reminders to add your specific laboratory or radiology test names:

VA-*: Breast Cancer Screen, *Cholesterol Screen (M) and (F)

VA-: Mammogram, PSA

VA-*: *Cervical Cancer Screen, *Colorectal Cancer Screen (FOBT), Colorectal Cancer Screen (Sig.), Hypertension Screen, Influenza Immunization, Pneumococcal Vaccine, Tetanus Diphtheria Immunization, Weight and Nutrition Screen

VA-: *Pap Smear, *FOBT, Flexisigmoidoscopy, Blood Pressure check, Influenza Vaccine, Pneumovax, PPD, Weight

* The Pap Smear and FOBT-type reminders don't look at the laboratory test names at this time. However, a future lab patch is anticipated that will require you to enter the laboratory test name as you did for PSA and cholesterol reminders.

- ◆ The following screening and education reminders work as is, but you must activate the topics under the PCE Reminder Maintenance Menu. The Table Maintenance item should match one or more of the Target Result Findings items as listed in each reminder definition.

VA-*: Fitness and Exercise Screen, Problem Drinking Screen, Seat Belt and Accident Screen, and Tobacco Use Screen.

VA-: Exercise Education, Alcohol Abuse Education, Seat Belt Education, Tobacco Education, Nutrition/Obesity Education, Advance Directives Education, Breast Exam, Breast Self Exam Education, Diabetic Eye Exam, Diabetic Foot Care Ed, Diabetic Foot Exam, Digital Rectal (Prostate) Exam

- b. Run enough copies of Clinical Reminder Definition Worksheets (Appendix A-3) for the reminders you wish to edit.

- c. Complete a Clinical Definition Worksheet for each reminder you wish to change. This is where you define the reminder print name, description, type, target result finding file, timeframes, taxonomies, and health factors, etc.
 - d. Get approval from your Medical Staff Executive Committee for your reminder definitions.
- 4. (optional) If a distributed taxonomy definition related to a reminder needs modification, do the following:**
 - a. Copy the taxonomy and then edit it, using the *Copy Taxonomy* option.
 - b. Modify the reminder to reflect the newly created taxonomy, using the *Reminder Edit* option.
- 5. Use options on the PCE Table Maintenance Menu to enter any locally created education, examinations, health factors, immunizations, or skin tests.**
- 6. Coordinate the use of encounter forms (through the AICS package) with the use of Health Summary Clinical Maintenance components.** Make sure the relevant encounter forms contain all appropriate list bubbles for PCE data: Health factors, exams, immunizations, diagnosis, patient education, procedures, and skin tests.
- 7. Use the Health Summary package to activate clinical reminders and clinical maintenance components.**
 - a. Enable components through the Health Summary Maintenance Menu (GMTS IRM/ADPAC Maintenance Menu).
 - b. Inactivate reminder topics you will not be using.
 - c. Create a Preventive Medicine Health Summary to display reminders and health maintenance components, or add these components to existing health summaries. You can print copies and include them with the encounter form and chart for each visit, or your providers can view health summaries on their computers.
- 8. Inactivate reminders which will not be used, with the *Activate/Inactive Reminders* option.**
- 9. Test your reminders.** You can do this two ways:
 - a. Run health summaries on patients you know have documented health factors or taxonomies.
 - b. Use the *Reminder Test* option, a standalone option which technical users can use to see a programmer's view of the results of a reminder for a patient. This option doesn't affect any data; it provides debugging information. Check with your IRMS staff for availability..

10. Meet with users and explain Clinical Reminders, the use of the Preventive Medicine Health Summary, and the need for their continued documentation of progress notes, doctor s orders, etc.
11. Meet with appropriate staff to arrange for data validation to assure that:
 - a. Encounter forms are being completed correctly
 - b. Clerks are entering information that is marked on the encounter form (if using manual entry)
 - c. Scanners are picking up information accurately (if scanning)
 - d. Information is being passed to health summaries correctly
 - e. Documentation in the patient s medical record supports information displayed on the clinical reminders and clinical maintenance components

Defining Clinical Terms with PCE Tables

The PCE package provides options for defining terminology which your site can use to support capturing data for the reminders. The tables are categorized as follows:

Education Topic	Exam
Health Factor	Immunization
Skin Test	Treatment

With the exception of the table of Treatments, all of the table items are supplied in an activated state. (clinical reminders do not use Treatments). If there are choices that you don t want your users to see and pick, you must deactivate them (with the PCE Table Maintenance *Activate/Inactivate Table Items* option).

PCE Reminder Maintenance Menu

Option	Option Name	Description
List Reminder Definitions	PXRM REMINDERS LIST	Lists all of the Reminder/Maintenance item definitions.
Inquire About Reminder Item	PXRM REMINDER INQUIRY	Lists the definition of a selected reminder.
Add/Edit Reminder Item	PXRM REMINDER EDIT	Used to edit Reminder/ Maintenance Item definitions.
Copy Reminder Item	PXRM REMINDER COPY	Used to copy an existing reminder item definition into a new reminder item in the Reminder/ Maintenance Item file (#811.9). Once the copy is completed you will have the option of editing the new reminder.
Activate/ Inactivate Reminders	PXRM (IN)/ ACTIVATE REMINDERS	Used to make reminders active or inactive with Health Summary.
List Reminder Types Logic	PXRM REMINDER TYPES LOGIC	Lists the Reminder Types along with a summary of where the reminder's logic searches for data in VISTA to be used for the reminder type s target patient findings.
List Taxonomy Definitions	PXRM TAXONOMY LIST	Lists the current definition of taxonomies defined in the Taxonomy file, which defines the coded values from ICD Diagnosis, ICD Operation/ Procedures, or CPT codes that are part of a clinical category (taxonomy). These taxonomy low and high range definitions are used by the Clinical Reminders logic to determine if a patient has coded values in the clinical files that indicate the patient is part of the taxonomy.
Inquire about Taxonomy Item	PXRM TAXONOMY INQUIRY	Lists the current definition of a single taxonomy, including the same information as the Taxonomy List option.
Edit Taxonomy Item	PXRM TAXONOMY EDIT	Used to edit Taxonomy Item definitions.
Copy Taxonomy Item	PXRM TAXONOMY COPY	Used to copy an existing taxonomy definition into a new entry in the Taxonomy file (#811.2). Once the taxonomy has been copied, you have the option of editing it.
Activate/ Inactivate Taxonomies	PXRM (IN)/ ACTIVATE TAXONOMIES	This option allows you to activate/inactivate taxonomies.

Reminder Test [PXRM REMINDER TEST], a standalone option, provides the technical user with a tool that can facilitate the creation and debugging of reminder definitions. This option lets you run a reminder directly and see all the details. It is completely safe to use, and its impact on the system is no different than running a reminder through Health Summary. The use of this option is explained in detail in Appendix A-7.

Depending on a site s preferences, IRMS can add this option to the Reminder Maintenance menu or to a particular user s secondary menus.

C. Example: Copying and Editing a Reminder

NOTE: Use one up-arrow (^) or two up-arrows (^ ^) to exit from the option. Two up-arrows (^ ^) are necessary to exit from some prompts (ones that are indented).

```
RL      List Reminder Definitions
RI      Inquire about Reminder Item
RE      Add/Edit Reminder Item
RC      Copy Reminder Item
RA      Activate/Inactivate Reminders
RT      List Reminder Types Logic
TL      List Taxonomy Definitions
TI      Inquire about Taxonomy Item
TE      Edit Taxonomy Item
TC      Copy Taxonomy Item
TA      Activate/Inactivate Taxonomies

Select PCE Reminder Maintenance Menu Option: RC Copy Reminder Item
Select the reminder item to copy: FECAL OCCULT BLOOD TEST
PLEASE ENTER A UNIQUE NAME: LOCAL FECAL OCCULT BLOOD TEST

The original reminder FECAL OCCULT BLOOD TEST has been copied into LOCAL FECAL
OCCULT BLOOD TEST.
Do you want to edit it now? YES

NAME: LOCAL FECAL OCCULT BLOOD TEST  Replace <Enter>

REMINDER TYPE: LABORATORY TEST// <Enter>

PRINT NAME: Fecal Occult Blood Test  Replace <Enter>

RELATED REMINDER GUIDELINE: VA-*COLORECTAL CANCER SCREEN (FOBT)
// <Enter>

INACTIVE FLAG: ?
    Enter "1" to inactivate the reminder item.
    Choose from:
        1          INACTIVE
INACTIVE FLAG: <Enter>

REMINDER DESCRIPTION:
Fecal occult blood test due every year for patients ages 50 and older with
no dx of colorectal cancer.

This reminder is based on guidelines provided by the Ambulatory Care
Expert Panel.  It also satisfies the "Colorectal Cancer Screen - FOBT"
guidelines specified in the "Guidelines for Health Promotion and Disease
Prevention", M-2, Part IV, Chapter 9.
    EDIT? NO// <Enter>

TECHNICAL DESCRIPTION:. . .
. . .
Operation/Procedure file.  If this taxonomy needs modification, copy the
taxonomy to a new taxonomy for your site, and make the appropriate
modifications.

Copy the reminder to a new reminder for your local site's modifications.

NOTE:  The Laboratory data is not available use in the reminder.  When the
lab package begins passing CPT codes for fecal occult blood tests to PCE,
this reminder is ready to make use of the information.
```

Copying and Editing a Reminder, cont d

```
EDIT? NO// <Enter>
Target Groups
DO IN ADVANCE TIME FRAME: 1M//<Enter>
SEX SPECIFIC: <Enter>
IGNORE ON N/A: ??
    This field allows the user to stop reminders from being printed in the
    "Clinical Maintenance" component of Health Summary if the reminder is N/A.
    This is free text that can contain any combination of the following codes:

    Code  Description
    A     N/A due to not meeting age criteria.
    S     N/A due to the wrong sex. IGNORE ON N/A: <Enter>

Baseline frequency age range set
Select REMINDER FREQUENCY: 0Y//<Enter>
    REMINDER FREQUENCY: 0Y//<Enter>
    MINIMUM AGE: 0//<Enter>
    MAXIMUM AGE: 49//40
    AGE MATCH TEXT:
    Fecal Occult Blood Test (FOBT) not indicated in patients under 50.
    EDIT? NO// YES
REPLACE 50 WITH 40 REPLACE <Enter>
EDIT Option: <Enter>
    AGE NO MATCH TEXT:
No existing text
    Edit? NO//<Enter>
Select REMINDER FREQUENCY: <Enter>
Target Findings
Select TARGET RESULT FINDINGS FILE: LABORATORY TEST//<Enter>
    TARGET RESULT FINDINGS FILE: LABORATORY TEST//<Enter>
    TARGET RESULT DESCRIPTION:
Identify all laboratory tests which represent Fecal Occult Blood tests in
the Target Result Findings Item multiple.

FOBT's may also be identified by defining a taxonomy in PCE Taxonomy that
identifies coded ranges of CPT or ICD Operation/Procedure codes that
represent this test.
    EDIT? NO// <Enter>
    Select TARGET RESULT FINDINGS ITEM: OCCULT BLOOD (STOOL)//<Enter>
    TARGET RESULT FOUND TEXT:
    No existing text
    Edit? NO//
    TARGET RESULT NOT FOUND TEXT:
    No existing text
    Edit? NO//
Taxonomy Findings
Select TAXONOMY: VA-COLORECTAL CA//<Enter>
    TAXONOMY: VA-COLORECTAL CA//<Enter>
    MINIMUM AGE: 30
    MAXIMUM AGE: <Enter>
    REMINDER FREQUENCY: 0Y//1Y
    FOUND TEXT:
    Patient known to have hx of colorectal cancer. Please verify appropriate
    tx & f/u is ongoing.
    Edit? NO// <Enter>
    NOT FOUND TEXT:
    No hx of colorectal cancer on file - presumed no hx.
    Edit? NO// <Enter>
```

Use ^^ to exit option at these prompts.

Use ^^ to exit option at these prompts.

Use ^^ to exit option at these prompts.

Copying and Editing a Reminder, cont d

RANK FREQUENCY: ??

This optional field is used to rank the frequency and age ranges that are associated with this Taxonomy Finding.

This field is used for the situation 1) where more than one match is found among Taxonomy Findings, and/or Health Factor Findings and/or Computed Findings, and 2) where more than one of the Findings definitions has its own age range and frequency. The rank is used to define a priority or ranking that tells the reminder logic which age range and frequency should take precedence when there are multiple results found.

The value which can be entered in the Rank field should be a number from 1 to 999, or blank. The highest ranking (priority) is number 1. When there are multiple Findings found, the Finding with the highest rank will be used to set the frequency and age range which are used to determine when the reminder is due.

When the Rank field is blank (null) for this Taxonomy Finding, and also blank for the Health Factor and Computed Findings definitions, the reminder logic will use the frequency that will make the reminder occur most often. For example, a Health Factor Finding has age range 25-50 with a frequency of 6 months, and a Taxonomy Finding has age range 25-70 and a frequency of 1 year. The Health Factor age and frequency would be used for the reminder, since a 6 month interval is more frequent than 1 year interval.

RANK FREQUENCY: <Enter>

USE IN DATE DUE CALC: ??

This optional field is used by the reminder logic to determine if the date of a match on the Taxonomy Finding should be used to determine the next date the reminder will be due. If there are multiple matches among the Findings, and this Taxonomy Finding is the the most recent Finding, then the reminder date due will be calculated from the encounter date of this Finding.

A blank in this field indicates the encounter date of the matched Taxonomy Finding will NOT be used to determine the next date the reminder will be due. The Taxonomy Finding encounter date and data WILL however be displayed in the clinical maintenance component as information.

This field is very useful for the situation when the Targeted Result Findings AND this Taxonomy Finding should be used as valid patient results satisfying the reminder.

Choose from:

- 1 YES
- 0 NO

USE IN DATE DUE CALC: <Enter>

USE IN APPLY LOGIC: ??

This optional field is used by the user to indicate that this Taxonomy Finding should be included as part of the "Apply Logic". The Apply Logic is used to determine whether or not a reminder should be applied (given) to a patient. This is very useful for those situations where a reminder should only be given to, or NOT given to patients with a particular Taxonomy Finding, such as diabetes.

Copying and Editing a Reminder, cont d

This "Use in Apply Logic" field can be defined with one of the following coded values:

CODE	VALUE	EQUATES TO BOOLEAN OPERATOR LOGIC
----	-----	-----
	BLANK	not included in Apply Logic (Use @ to delete value)
&	AND	&(Finding)
!	OR	!(Finding)
&'	AND NOT	&'(Finding)
!'	OR NOT	!'(Finding)

The code selected is used to create a default Boolean "Apply Logic" string for this reminder. The Apply Logic string always initially defaults to include (SEX)&(AGE), but will add &(Finding), !(Finding), &'(Finding), or !(Finding) to the string depending on the code in this "Use in Apply Logic" field. If a more detailed definition of the Apply Logic is required, then the "Apply Logic" field in the PCE REMINDER/MAINTENANCE FILE (811.9) can be defined via FileMan. When the Apply Logic is defined using FileMan, the "Use in Apply Logic" field will be ignored by the reminder logic because the default "Apply Logic" is overridden by the contents of the "Apply Logic" field. To reactivate the default "Apply Logic", use FileMan to delete the contents of the "Apply Logic" field. Choose from:

&	AND
!	OR
&'	AND NOT
!'	OR NOT

USE IN APPLY LOGIC: **<Enter>**

Select TAXONOMY: **<Enter>**

TAXON GENERAL FOUND TEXT:

No existing text

Edit? NO//

TAXON GENERAL NOT FOUND TEXT:

No existing text

Edit? NO//

Health Factor Findings

Select HEALTH FACTOR FINDINGS ITEM: ACTIVATE FOBT CANCER SCREEN// **<Enter>**

HEALTH FACTOR FINDINGS ITEM: ACTIVATE FOBT CANCER SCREEN// **<Enter>**

MINIMUM AGE: **<Enter>**

MAXIMUM AGE: **<Enter>**

REMINDER FREQUENCY:

FOUND TEXT:

No existing text

Edit? NO// **<Enter>**

NOT FOUND TEXT:

No existing text

Edit? NO// **<Enter>**

RANK FREQUENCY:

USE IN DATE DUE CALC: **<Enter>**

USE IN APPLY LOGIC: **<Enter>**

Select HEALTH FACTOR FINDINGS ITEM:

HF GENERAL FOUND TEXT:

No existing text

Edit? NO// **<Enter>**

HF GENERAL NOT FOUND TEXT:

No existing text

Edit? NO// **<Enter>**

Computed Findings

Select ROUTINE: **<Enter>**



Copying and Editing a Reminder, cont d

APPLY LOGIC: <Enter>

Select the reminder item to copy: <Enter>

RL	List Reminder Definitions
RI	Inquire about Reminder Item
RE	Add/Edit Reminder Item
RC	Copy Reminder Item
RA	Activate/Inactivate Reminders
RT	List Reminder Types Logic
TL	List Taxonomy Definitions
TI	Inquire about Taxonomy Item
TE	Edit Taxonomy Item
TC	Copy Taxonomy Item
TA	Activate/Inactivate Taxonomies

Select PCE Reminder Maintenance Menu Option: <Enter>

D. Health Summary Example

This example shows both clinical maintenance and clinical reminders components, so you can see the differences.

The clinical reminder component is an abbreviated component indicating only what is due now.

The clinical maintenance component provides:

- Details about what was found from searching the VISTA clinical data
- Text related to the findings found or not found (as defined in the reminder)
- Final frequency and age range used for the reminder

```
02/13/97 13:35
***** CONFIDENTIAL TEST REMINDERS SUMMARY *****
FONTAINE,FELIX      546-78-7654                      DOB: 08/18/24
```

```
----- CM - Clinical Maintenance -----
-
```

The following disease screening, immunization and patient education recommendations are offered as guidelines to assist in your practice. These are only recommendations, not practice standards. The appropriate utilization of these for your individual patient must be based on clinical judgment and the patient's current status.

--NEXT-- --LAST--

```
Cholesterol Screen (Male)      N/A
  Patient's age (72) is greater than reminder maximum age of 65.
  LAB: Date of last cholesterol test unknown.
  Date of last cholesterol taxonomy (CPT) unknown.
```

```
Fecal Occult Blood Test      07/02/97 07/02/96
  2/5/97 Health Factor: ACTIVATE FOBT CANCER SCREEN
  7/2/96 Encounter Procedure: 45330-SIGMOIDOSCOPY, DIAGNOSTIC
  7/2/96 Encounter Procedure: 82270-TEST FECES FOR BLOOD
  FOBT due 5 years after the last sigmoidoscopy.
  Final Frequency and Age Range used: 1 year for ages 50 and older.
```

```
Flexisigmoidoscopy           N/A
  2/5/97 Health Factor: INACTIVATE SIGMOIDOSCOPY
  7/2/96 Encounter Procedure: 45330-SIGMOIDOSCOPY, DIAGNOSTIC
  7/2/96 Encounter Procedure: 82270-TEST FECES FOR BLOOD
  Final Frequency and Age Range used: 0Y - Not Indicated for ages 50
  and older.
```

```
Exercise Education            DUE NOW unknown
  Final Frequency and Age Range used: 1 year for all ages.
```

```
Hypertension Detection        DUE NOW unknown
  Vitals: Date of last Vitals BP Measurement unknown.
  Date of last ICD or CPT coded hypertension screen unknown.
  Final Frequency and Age Range used: 2 years for all ages.
```

```
Influenza Immunization        07/02/97 07/02/96
```

Pneumovax DONE 07/01/96
7/1/96 Encounter Procedure: 90732-PNEUMOCOCCAL IMMUNIZATION
Pneumovax due once for patients 65 and over.
Final Frequency and Age Range used: 99Y - Once for ages 65 and older

Problem Drinking Screen DUE NOW unknown
Screen for alcohol problems yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Seat Belt and Accident Screen DUE NOW unknown
Seat belt education due yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Tobacco Use Screen DUE NOW unknown
Tobacco use screen due yearly for all ages.
No history of tobacco use screen on file. Please evaluate tobacco
use and educate if currently in use.
Final Frequency and Age Range used: 1 year for all ages.

Weight and Nutrition Screen DUE NOW unknown
Weight and Nutrition screen due yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

The following disease screening, immunization and patient education recommendations are offered as guidelines to assist in your practice. These are only recommendations, not practice standards. The appropriate utilization of these for your individual patient must be based on clinical judgment and the patient's current status.

* END *

E. Key Concepts

- Clinical Reminders on health summaries furnish providers with timely information about their patients' health maintenance schedules.
- Providers can work with their local ADP coordinators to set up customized schedules based on local and national guidelines for patient education, immunizations, and other procedures.
- Options on the Clinical Reminder/Health Maintenance menu let you edit reminder and health maintenance definitions, based on your site's clinical terminology.
- A complete reinder definition includes associated components such as examinations, taxonomies, and health factors. Sites may define their own components to use in reminder definitions. A site may also create routines for computed findings where necessary. This makes reminders completely customizable by sites.
- Taxonomy entries define low and high range values from ICD Diagnosis, ICD Operation/ Procedures, and CPT codes which are part of a clinical category (taxonomy).
- To alter a VA- prefixed reminder item, first copy it to a different name and then edit the reminder to reflect your site's requirements for the reminder.
- Once reminder criteria have been defined, they may be included in the Health Summary Type definitions for the Clinical Reminder and Health Maintenance components which will be displayed on health summaries.

Appendix A

Clinical Reminders Guidelines and Worksheets

(Patch PX*1.0*16 Replacement Pages)

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Appendix A-1: Start-Up Process for Implementing Reminders

1. Gather copies of the Appendix A worksheets

- Appendix A-2 Clinical Reminders at a Glance
- Appendix A-3 Clinical Reminder Definition Worksheet
- Appendix A-4 PCE Clinical Integration Worksheet

2. Review the reminders distributed with PCE

- Use Appendix A-8 to review distributed reminder names, and to see how they relate to each other.
- Number of Reminder Items distributed:
 - ◆ NCHP VA-* prefixed reminder items 15
 - ◆ Amb Care EP s VA- prefixed reminder items 22

3. Become familiar with the distributed taxonomies.

- Use Appendix A-9 to review distributed taxonomies.
- Number of taxonomies distributed: 30

4. Identify preventive maintenance guidelines to be used for start-up.

- *Identify clinician(s) who want their clinic to be the start-up clinic for the reminders.* Ideally, this should be a clinician who uses encounter forms and health summaries and wants to be actively involved with the clinic's encounter form and reminder definition process.
- *Identify the coordinator who defines the clinic's encounter form(s).* Inform the coordinator about the reminder definition process, and that it could impact the clinicians' encounter form definition. Get a copy of the current encounter form definition used by the clinic.
- *Work with the clinician to identify the category of reminder(s) from the distributed list in Appendix A-8 that the clinician would like to start with.* The VA-* and VA- reminders that are similar are listed next to each other in Appendix A-2. This gives an overview of the reminders by guideline category and how they relate to each other. Each row in Appendix A-2 contains the reminders that address the same preventive maintenance guideline, each with a little different definition. The last column is reserved for the coordinator for tracking purposes to indicate the local reminder that is being used to satisfy the preventive maintenance guideline.

- Use Appendix A-4 to identify the appropriate coordinators for resolving the overlap between package management of PCE table, clinical reminder, health summary, and encounter form definitions.

5. Identify how the clinician would like to see preventive maintenance guidelines implemented in his/her clinic

- Show the clinician the VA-* (NCHP) and VA- (Amb Care EP) prefixed detailed definitions of reminders that relate to the category of guidelines the clinician is interested in. For each definition review the following:

Print Name

What text does the clinician want to see on the health summary to identify this reminder?

Age Findings

What age range(s) (if any) should be in effect for this reminder? How frequently should the reminder be due? Keep in mind that taxonomy, and health factor findings can alter the age range and frequency criteria.

Target Result Findings Items

Determine if the items are appropriate for your site. Check the item s content based on your local definitions from the target result findings file. If the Target Result Finding file is one of those in the left column below, answer the question in the right column.

Items	Questions
Lab Test (Chemistry & Hematology only)	What are the laboratory test names that should be looked for to satisfy the reminder?
Radiology Procedure	What are the radiology procedure names that should be looked for to satisfy the reminder?
Measurement	What are the measurements that should be looked for to satisfy the reminder?
Education	What are the education topics that should be looked for to satisfy the reminder?
Immunization	What are the immunizations that should be looked for to satisfy the reminder?
Exam	What are the exams that should be looked for to satisfy the reminder?
Skin Test	What are the skin tests that should be looked for to satisfy the reminder?
Procedure	What are the CPT codes and ICD Operation/Procedure codes that should be looked for to satisfy the reminder?

Taxonomy Items

Get a detailed list of the taxonomy definitions currently defined for the reminder. (See Appendix A-9 for a list of distributed taxonomy definitions.) For each taxonomy, review the list with the clinician and decide if it is appropriate. If not, develop a new list and create a taxonomy reflecting the new list. Keep track of these coded values for integration with the Encounter form. (The clinician may already be collecting preferred codes on the encounter form. The clinic's encounter form may be useful to have available during this process.)

- If the patient is found to have a match with the taxonomy:
 - ◆ Decide if the age range and/or reminder frequency should be altered and if it is what the rank should be.
 - ◆ Decide if the taxonomy can be used to satisfy the reminder.
 - ◆ Decide what (if any) found text message should be displayed on the Clinical Maintenance component. (The date and what was found will be displayed in the Clinical Maintenance component.)
 - ◆ Decide if the taxonomy should control whether or not the reminder is applicable.
- If the patient is not found to have to have a match with the taxonomy:
 - ◆ Decide what (if any) not-found text message should be displayed on the Clinical Maintenance component.
- Is there a generic found text or not-found text that the clinician would like to see if any of the taxonomies were matched, or if none of the taxonomies were matched?

Health Factor Findings Items

- What are the health factors that should be looked for to satisfy the reminder?
- If the patient has the health factor information on file:
 - ◆ Decide if the age range and/or reminder frequency should be altered.
 - ◆ Replace the taxonomy with the health factor
 - ◆ Decide what (if any) found text message should be displayed on the Clinical Maintenance component. (The date and what was found will be displayed in the Clinical Maintenance component.)
 - ◆ Replace the taxonomy with the health factor.
- If the patient is not found to have the health factor information on file:
 - ◆ Decide what (if any) not found text message should be displayed on the Clinical Maintenance component.
- Is there a generic found text or not found text that the clinician would like to see if any of the health factors were found, or if none of the health factors were found?

Use Appendix A-3, Reminder Definition pages 1 through 6, as tools to map out the desired definitions for the local reminders. Alternatively, if one of the distributed reminders is very close, make the changes on the distributed print of the reminder definitions.

If answers to any of the questions above are different from the distributed definition, than a local reminder definition must be created for the preventive maintenance guideline.

6. Review and edit Reminder/Maintenance file entries, as needed.

For each specified reminder definition, the PCE files may require new entries to support the reminder. For PCE files, review the following files and answer the questions in the right column.


File	Questions
Education Topic	Are the education topics already defined in the Education Topics file?
Immunization	Are the immunizations already defined in the Immunization file?
Exam	Are the exams already defined in the Exam file?
Skin Test	Are the skin tests already defined in the Skin Test file?
Taxonomy	Is there a taxonomy defined that addresses the ICD Diagnosis, ICD Operation/Procedure and CPT codes that should be looked for to satisfy the reminder. Keep in mind that multiple taxonomies may be defined, each with a different emphasis on grouping.

7. Resolve integration issues between the clinic's encounter form and reminder definition

- For each reminder to be used, determine what items identified as part of the reminder's criteria should be captured off the encounter form.
 - ◆ Vital types for measurement reminders
 - ◆ Education Topics for education reminders
 - ◆ Immunizations for immunization reminders
 - ◆ Exams for exam reminders
 - ◆ Skin Tests for skin test reminders
 - ◆ Taxonomies with CPT codes and ICD Operation/Procedure codes for procedure reminders
 - ◆ Taxonomies with ICD codes for diagnosis tracking/reminder alteration within the reminder definition
 - ◆ Health Factors for health factor tracking/reminder alteration within the reminder definition
- The Clinical Coordinator responsible for the clinics encounter form(s) definitions needs to make the appropriate changes to begin collecting any new data that is needed to meet the preventive maintenance guidelines.

8. Define a PCE Reminder/Maintenance Item for each unique reminder

- Use the PCE Reminder Maintenance Menu option, *Copy reminder Item*, to copy and edit an existing reminder. You may also create a new reminder from scratch, but it is usually easier to start with an existing reminder.

 **NOTE:** The technical descriptions may be useful for summarizing what your goals are for the reminder and for sharing with other sites.

9. Test the new reminder

There are two ways to test a reminder:


1. Add the reminder to a test Health Summary.
Using a test health summary shows how the reminder looks from a user's perspective.
2. Use the *Reminder Test* option, as described in Appendix A-7.
The *Reminder Test* option can be a useful tool to reminder developers for debugging reminders that don't work as expected.

To test a reminder using Health Summary:

1. Add the Clinical Maintenance and Clinical Reminder components to the reminder health summary type. Select the reminder item(s) to be tested in the selection items prompt from Clinical Maintenance and Clinical Reminder components.

Health Summary reminder components:

CLINICAL REMINDERS	This component evaluates patient findings to determine if the reminder is DUE NOW .
CLINICAL MAINTENANCE	This component evaluates patient findings and reports the findings or lack of findings used to determine whether or not the reminder is due.

 **NOTE:** If you can't select the PCE Clinical Maintenance or PCE Clinical Reminder components for the Health Summary, the components must be enabled for use, and the *Rebuild Ad Hoc Health Summary Type* option must be run.

2. Use the Print Health Summary Menu *Patient Health Summary* option to begin testing the component for individual patients. Find or create test patients with data in **VISTA** that matches the reminder definitions, as well as some that won't have data matches. Assess the reminder results:
 - Are the age range and frequency evaluation working?
 - Are the target findings found or not found as expected?
 - Are the taxonomy findings found or not found as expected?
 - Are the health factors found or not found as expected?

- If match and no-match are defined, are they being displayed?
 - Are alterations of the age and frequency criteria working as expected based on taxonomy or health factor findings?
3. Use the Print Health Summary Menu *Hospital Location Health Summary* option to print the reminders for a clinic, based on a recently passed date range or next week's date range. Did the health summary print run to completion without any errors?
 4. Contact IRMS if you encounter errors. The IRMS person may enter a NOIS for correction of the error.
 5. Do not add reminders that are causing errors to the clinic's health summary. Make the reminders inactive until the problem is resolved.
 6. Once the reminder is working as expected, show the clinician the reminder definitions, samples of the health summary components results and possibly the encounter form. Gather feedback.
 7. If necessary, make modification to the reminder definition, taxonomies, and encounter forms. After the modifications have been made, resume the testing.
 8. Identify the Health Summary Coordinator for the clinic. Provide the coordinator with the list of selection item reminders that the clinician has selected for their clinic.
 9. The Health Summary Coordinator must add the Clinical Reminder and/or Clinical Maintenance components to the clinic's health summary type, adding the selection items for the Reminder/Maintenance Items.

Appendix A-2: Clinical Reminders at a Glance

This is a worksheet to help track a clinic's selected reminders. See instructions on the following page. Make copies of this page for each clinic.

Clinic _____


NCHP Reminder Guideline (VA-* Prefix) A/I**	Amb Care EP / Site Examples Distributed (VA- Prefix) A/I	Local Site Guideline A/I
Breast Cancer Screen	Mammogram	
Cervical Cancer Screen	Pap Smear	
Cholesterol Screen (F)		
Cholesterol Screen (M)		
Colorectal Cancer Screen (FOBT)	Fecal Occult Blood Test	
Colorectal Cancer Screen (Sig.)	Flexisigmoidoscopy	
Fitness and Exercise Screen	Exercise Education	
Hypertension Screen	Blood Pressure Check	
Influenza Immunization	Influenza Vaccine	
Pneumococcal Vaccine	Pneumovax	
Problem Drinking Screen	Alcohol Abuse Education	
Seat Belt and Accident Screen	Seat Belt Education	
Tetanus Diphtheria Immunization		
Tobacco Use Screen	Tobacco Education	
Weight and Nutrition Screen	Nutrition/Obesity Education	
	Advanced Directives Education	
	Breast Exam	
	Breast Self Exam Education	
	Diabetic Eye Exam	
	Diabetic Foot Care Ed.	
	Diabetic Foot Exam	
	Digital Rectal (Prostate) Exam	
	PPD	
	PSA	
	Weight	

** A/I = Active/Inactive

Clinical Reminders at a Glance Worksheet Instructions

Use the table on page 9 as a worksheet to help track a clinic's selected reminders. Each row of this table represents variations of the same type of reminder.

1. Become familiar with the distributed reminder definitions found in A-8. The VA-* reminders, based on definitions by the National Center for Health Promotion (NCHP), represent a minimum set of reminders which sites must be able to report on yearly to comply with Congressional law.
2. The VA- reminders are site and Ambulatory Care Expert Panel examples of reminders. When a VA- reminder is in the column next to a VA-* reminder, the VA- reminder is an example of an alternative reminder that still addresses the NCHP guideline.
3. Use Appendix A-3 as a worksheet for developing the local reminder definitions. This includes requirements for taxonomies, health factors, and target findings that are needed to meet your site's preventive maintenance guidelines.
4. Use the PCE Table Maintenance options to create any new education topics, exams, immunizations, skin tests, and health factors needed by the reminders.
5. Use the Taxonomy Copy and Edit options to create and modify site taxonomies, if the distributed taxonomies need modifications.
6. Use the Reminder Copy and Edit options to create and modify site reminders if the distributed reminders need modifications. Make sure that the NCHP Guideline field is filled in if the site reminder is replacing a VA-* version of a reminder.
7. Add the names of any local site reminders into table A-2.
8. Use table A-2 to identify the reminders that you will actually use, and enter an **A** in the boxes of the A/I column. This will summarize which reminders should be marked active.
9. Inactivate any reminders that will not be used by your site. As reminders are identified, you can summarize which reminders won't be used by entering **I** in the A/I boxes.
10. Test reminders by adding the reminders to a test health summary types Clinical Maintenance or Clinical Reminder components, or reference the reminders in the *AD HOC Health Summary* option for the Clinical Maintenance or Clinical Reminder components. You can also test reminders by using the *Reminder Test* option (see Appendix A-7). Initially, you may want to focus only on the Clinical Maintenance component to ensure that the **VISTA** data is being evaluated appropriately.

 **NOTE:** If you're using reminders for performance measures, you may want to create your own table, listing the performance measure being met and the related reminder.

Appendix A-3 - Clinical Reminder Definition Worksheet

Clinical Reminder Definition Worksheet	Page 1 of 6
Clinic Name/Clinician: _____	
Reminder NAME (required): _____ Enter the name of a clinical reminder/maintenance item.	
REMINDER TYPE (req):	Check one of the following: <div style="margin-left: 40px;"><input type="checkbox"/> Education <input type="checkbox"/> Examination <input type="checkbox"/> Immunization <input type="checkbox"/> Laboratory Test (chemistry & hematology) <input type="checkbox"/> Measurement <input type="checkbox"/> Radiology Procedure <input type="checkbox"/> Procedure <input type="checkbox"/> Skin Test</div>
PRINT NAME (opt): _____ Enter the name that will be printed on the Health Summary.	
RELATED REMINDER GUIDELINE (opt): _____ If this local reminder replaces an NCHP related reminder, identify the related NCHP reminder here. The VA-* prefixed reminders are NCHP reminders.	
INACTIVE FLAG (opt): '1' FOR INACTIVE; or use the @ to reactivate a reminder.	
REMINDER DESCRIPTION (opt): _____ _____ _____	
This field contains a clinical description of the purpose of the clinical reminder/maintenance item.	
TECHNICAL DESCRIPTION (opt): _____ _____ _____	
The technical description is the place to document the reasoning behind the reminder definition. It may also be useful for sites sharing reminder definitions.	
DO IN ADVANCE TIME FRAME (opt): _____ Enter the time period to mark the reminder due in advance (e.g., 7D, 1M, 6M, 1Y).	
SEX SPECIFIC (opt): Circle one or leave blank to apply to both. 'F' FOR FEMALE 'M' FOR MALE	
IGNORE ON N/A (opt): _____ This is used to prevent display of Non-Applicable messages on the Clinical Reminders component. The allowed codes are A for age and S for sex. More than one code can be selected.	

Reminder Name: _____

===== TARGET GROUPS (optional- multiple) =====

BASELINE AGE FINDINGS (opt): This multiple allows the user to define reminder frequencies based on maximum and minimum age ranges. These are called frequency age range sets. These frequency age range sets are the "Baseline" for the reminder. The baseline frequency age range set can be altered by a taxonomy finding, health factor finding, or computed finding.

REMINDER FREQUENCY (opt): _____
MINIMUM AGE (opt): _____
MAXIMUM AGE (opt): _____
AGE MATCH TEXT (opt): _____
AGE NO MATCH TEXT (opt): _____

REMINDER FREQUENCY (opt): _____
MINIMUM AGE (opt): _____
MAXIMUM AGE (opt): _____
AGE MATCH TEXT (opt): _____
AGE NO MATCH TEXT (opt): _____

REMINDER FREQUENCY (opt): _____
MINIMUM AGE (opt): _____
MAXIMUM AGE (opt): _____
AGE MATCH TEXT (opt): _____
AGE NO MATCH TEXT (opt): _____

REMINDER FREQUENCY (opt): _____
MINIMUM AGE (opt): _____
MAXIMUM AGE (opt): _____
AGE MATCH TEXT (opt): _____
AGE NO MATCH TEXT (opt): _____

Clinical Reminder Definition Worksheet

Page 3 of 6

Reminder Name: _____

===== TARGET RESULT FINDINGS (optional-1 entry) =====

Note: Only specify one result findings file in the reminder definition.
The result findings file must be the appropriate file for the Reminder Type identified on page 1. This is required for all reminder types except procedure.

Reminder Type:	Check one of the following:
Education	_____ Education Topics
Examination	_____ Exam
Immunization	_____ Immunization
Lab Test	_____ Laboratory Test (chemistry & hematology)
Measurement	_____ GMRV Vital Type
Radiology Procedure	_____ Radiology Procedures
Procedure	_____ leave blank
Skin Test	_____ Skin Test

TARGET RESULT DESCRIPTION (opt): _____

This describes what and why particular target result finding items need to be selected for this reminder.

TARGET RESULT FINDINGS ITEMS (opt): _____

These are the item(s) from the Target Result Findings File that should be used to evaluate patient findings for this reminder. These entries are based on a variable pointer definition. Use the PREFIX.? for a list of the currently defined entries for the reminder, and the total items available to select from in the file.

FILE	PREFIX	Description	Method to Define Items Not in the file
60	L	LABORATORY TEST (NOTE: Chem & Hem only)	See Lab Coordinator
71	R	RADIOLOGY TEST	See Radiology Coordinator
9999999.09	E	EDUCATION TOPIC	PCE Table Maintenance
9999999.14	I	IMMUNIZATION	PCE Table Maintenance
9999999.28	SK	SKIN TEST	PCE Table Maintenance
9999999.15	EX	EXAM	PCE Table Maintenance
120.51	VT	VITAL MEASUREMENT TYPE	See Gen Med Rec - Vitals package coordinator

TARGET RESULT FOUND TEXT (opt): _____

TARGET RESULT NOT FOUND TEXT (opt): _____

Clinical Reminder Definition Worksheet**Page 4 of 6**

Reminder Name: _____

===== TAXONOMY FINDINGS (optional-multiple) =====

You will need to fill out one of these sheets for each taxonomy used by the reminder. One General Found and Not Found Text may be defined for all the taxonomies if appropriate.

TAXONOMY (opt): You can define more than one taxonomy in the reminder definition, and alter the reminder criteria based on whether the patient has a match. Enter the Taxonomy name, or just list the ICD Diagnosis, ICD Operation Procedure, or CPT codes which need to be searched for. If no taxonomy containing these codes exists you will need to create one.

TAXONOMY ITEM: _____
or identify standard codes to build taxonomy(s).

ICD Diagnosis codes:

ICD Operation/Procedures:

CPT procedures:

A match on a taxonomy can alter the reminder criteria or give clinical feedback based on the following fields:

MINIMUM AGE (opt): _____

MAXIMUM AGE (opt): _____

REMINDER FREQUENCY (opt): _____

FOUND TEXT (opt): _____

NOT FOUND TEXT (opt): _____

RANK FREQUENCY (opt): _____

USE IN DATE DUE CALC (opt): _____

USE IN APPLY LOGIC (opt): _____

=====

TAXON GENERAL FOUND TEXT (opt): _____

TAXON GENERAL NOT FOUND TEXT (opt): _____

Reminder Name: _____

===== HEALTH FACTOR FINDINGS (optional - multiple) =====
You will need to fill out one of these sheets for each health factor used by the reminder. One General Found and Not Found Text may be defined for all the health factors if appropriate.

HEALTH FACTOR FINDINGS (opt):

These are the health factors that should be evaluated as findings for this reminder. Each health factor is defined in the Health Factor file with a health factor category. A match on the most recent health factor finding item(s) found for a patient represented in the reminder definition may be used to alter the reminder criteria. Multiple most recent health factor finding item(s) are based on the health factor category the health factor findings item belonged to. If 5 health factor finding items are defined in the reminder, from 2 unique health factor categories, then only the two most recent health factor findings (1 from each category) for a patient will be used by the reminder.

HEALTH FACTOR FINDINGS ITEM (opt): _____

A match on a health factor can alter the reminder criteria or give clinical feedback based on the following fields:

MINIMUM AGE (opt): _____
MAXIMUM AGE (opt): _____
REMINDER FREQUENCY (opt): _____
FOUND TEXT (opt): _____
NOT FOUND TEXT (opt): _____
RANK FREQUENCY (opt): _____
USE IN DATE DUE CALC (opt): _____
USE IN APPLY LOGIC (opt): _____

=====

HF GENERAL FOUND TEXT (opt): _____

HF GENERAL NOT FOUND TEXT (opt): _____

Reminder Name: _____

===== COMPUTED FINDINGS (optional - multiple) =====
You will need to fill out one of these sheets for each computed finding used by the reminder.

COMPUTED FINDINGS (opt): This multiple allows computed findings when the findings criteria are more involved than just checking the existence of an entry in the patient's clinical data. An example might be the calculation of Body Mass Index (BMI) based on the height and weight.

ROUTINE (opt): _____
An example of a routine would be OBESE;PXRMOBES.

A match on a computed finding can alter the reminder criteria or give clinical feedback based on the following fields:

MINIMUM AGE (opt):	_____
MAXIMUM AGE (opt):	_____
REMINDER FREQUENCY (opt):	_____
SHORT DESCRIPTION (opt):	_____
FOUND TEXT (opt):	_____
NOT FOUND TEXT (opt):	_____
RANK FREQUENCY (opt):	_____
USE IN DATE DUE CALC (opt):	_____
USE IN APPLY LOGIC (opt):	_____

===== APPLY LOGIC (optional) =====

APPLY LOGIC (opt): _____
For reminders requiring APPLY LOGIC that cannot be defined using the USE IN APPLY LOGIC field on taxonomies, health factors, and computed findings the APPLY LOGIC can be entered here. For a detailed explanation of how to use this field see Appendix A-7.

===== END OF REMINDER DEFINITION =====

Appendix A-4: PCE Clinical Integration Worksheet

Use this worksheet to coordinate the management of a clinic's reminder impact on Health Summary, PCE, and Encounter Forms. Successful integration depends on how well the clinical coordinators work with each other and the clinicians they represent.

Clinic Information:

Clinic Name: _____

Clinicians/Team: _____

Clinic's Health Summary Types: _____

Encounter Form #: _____

ID #: _____

Coordinators:

PCE Clinical Coordinator _____

Health Summary Clinical Coordinator _____

Preventive Maintenance Coordinator _____

Encounter Form Clinical Coordinator _____

Integration Checklist for management of:

Reminder/ Maintenance Item(s) selected:	PCE Table Review/ Update	Reminders	Health Summary	Encounter Form Review/ Update
		Define Test	CM CR	

Appendix A-5: Designing Encounter Forms based on Preventive Maintenance Guidelines

The Health Summary provides critical clinical information related to the patient for ambulatory care encounters. The encounter form is a means of documenting clinical activity/updates for a patient during the patient's encounter. This appendix sub-section gives a brief overview of how PCE, AICS, and Health Summary packages impact the clinician for tracking a patient's preventive maintenance guidelines. The following is a possible scenario for a clinician:

1. A clinician receives the encounter form and health summary for use during the encounter.
2. The clinician reviews the clinical reminder component and/or the Clinical Maintenance component for items that are DUE NOW.
3. The encounter form is predefined with a format that supports the clinical activity related to the reminders. If the clinician is going to ask about education, the clinician should also be prepared to give the appropriate education and document the information gathered from the inquiry.

Recommendation: If a clinician asks about the education needed and finds that education is needed, but isn't able to give the education, *the screening bubble should not be checked off* on the encounter form. The screening should be filled in when the clinician determines education is not indicated or when the clinician screens *and* gives the education.

Two examples of encounter forms are shown on the following pages with items that might be included to support reminders. These examples are:

- An abbreviated format for a clinic that is not interested in tracking details related to the reminders.
- An example of how detailed a clinic could choose to go with data capture related to the reminders.

If the clinician gives abbreviated education for all facets of the education topic, the Alcohol Use Education header should be the box checked; otherwise check-off the appropriate education given. If the clinician has health factor and diagnosis findings that he or she would like to see documented during the screening process, the appropriate boxes should be checked off.

Encounter Form Examples

a) Minimum Set

The following example represents a minimum set of information (without bubbles) that we recommend for the encounter form. It satisfies NCHP and can also be captured by PCE based on current PCE definitions. If new education topics are needed to represent the remaining screening items, they can be added.

Screening	Procedures:
Alcohol Use Screening	Immunizations:
Tobacco Use Screening	Pneumococcal
Nutrition/Obesity Screening	Influenza
Fitness and Exercise Screening	Tetanus and Diphtheria
Seatbelt Use Screening	
Education	Pap Smear
Alcohol Use Education	FOBT
Exercise Education	Sigmoidoscopy
Nutrition/Obesity Education	
Seatbelt Use Education	
Smoking Cessation Education	

b) Sample of Detailed Content (without bubbles)

Alcohol Use Management	Tobacco Use Management for Health Promotion
Alcohol Use Education	Tobacco Use
Screening/Inquiry	Screen/Inquiry
Diet	Smoking Education
Disease Process	Health Factors
Complications	Lifetime Non-Tobacco User
Exercise	Lifetime Non-smoker
Follow-up	Current Non-smokeless
Lifestyle Adaptations	Current Smoker
Medications	Smokeless Tobacco User
Alcohol Use Health Factors:	Current Non-Smokeless Tobacco User
Non-Drinker	Hx of Chewing Tobacco
Family Hx of alcohol abuse/addiction	Hx of smoking
Heavy Drinker (3 or more/day)	Hx of Sec. Smoke Inhal.
Moderate Drinker	Diagnosis: Tobacco Abuse-
Binge Drinking	Continuous
Drinking Alone	Episodic
Hx of Alcohol Treatment	In Remission
Legal Complications	Unspecified
Driving Under the Influence	Use Disorder - Unspecified
Alcohol Use Diagnoses:	
Delirium Tremens	
Cirrhosis of the Liver	
Alcohol Abuse - Unspecified	
Alcohol Abuse - Episodic	
Alcohol Abuse - Continuous	
Alcohol Abuse - In Remission	
Alcohol Dependence	
Alcohol Dependence - In Remission	
Hx of Alcoholism	

Appendix A-6: Technical Overview of Reminder Logic

☞ **NOTE:** This overview is extracted from the PCE REMINDER/MAINTENANCE ITEM file data dictionary description.

This file contains the definitions of reminders which can be selected for use in the Health Summary package components:

CLINICAL REMINDERS - This component evaluates patient findings to determine if the reminder is "DUE NOW."
CLINICAL MAINTENANCE - This component evaluates patient findings and reports the findings or lack of findings used to determine whether or not the reminder is due.

Reminder definitions are contained in this file. Each reminder is categorized by "Reminder Type." Based on the reminder type, a "Target Result Findings File" is specified along with the particular items from that file that should be used. For example, for an immunization reminder the target is the IMMUNIZATION file. The particular items would be the name(s) of the immunizations. For each specified immunization, the V IMMUNIZATION file is searched for patient results. For Laboratory reminders, exact names used by the site make up the item list.

Target age groups may be defined for each reminder in this file, based on patient's age. Reminder frequencies may be defined by age ranges in the Baseline Age Findings multiple. The age range and reminder frequency to use for the reminder can be altered based on findings of diagnosis, procedure, or health factor data related to a specific patient. The patient's age from PIMS is used for age findings.

Diagnosis and Procedure findings are based on definitions of coded standard ranges defined in the Taxonomy file. The Taxonomy file is distributed with predefined definitions for all reminders distributed by the PCE package. Facilities may create their own taxonomies to use in locally defined reminders. The taxonomies defined for evaluating patient data for diagnosis and procedure findings for a reminder are defined in the "Taxonomy Findings" fields. Based on the patient taxonomy findings, a reminder's frequency and minimum and maximum age criteria can be changed. Text may be defined which will be displayed in the Health Summary "Clinical Maintenance" component to reflect taxonomy findings found or not found in the patient data.

If a taxonomy definition in the Taxonomy file is defined with ICD Diagnosis code ranges, the following files are checked for findings of a code within the Diagnosis ranges specified:

PROBLEM File (AUPNPROB) in Problem List
V POV File (AUPNVPOV) in PCE (representing problems/diagnosis treated at encounter)
PTF File (DGPT) in PIMS (Inpatient Diagnosis summary information)

If a taxonomy definition in the Taxonomy file is defined with CPT code ranges, the following patient file is checked for findings of a code within the CPT ranges specified:

V-CPT File (PCE, representing procedures done at patient encounters)

Appendix A-6: Technical Overview of Reminder Logic, cont d

If a taxonomy definition in the Taxonomy file is defined with ICD Operation/Procedure codes, the following patient file is checked for findings of a code within the ICD Operation/Procedure code ranges specified:

PTF File (PIMS, Inpatient Operation/Procedures summary information)

Health factors are defined in the Health Factors file, and can be used to identify health indicators for use with reminders. These factors are not based on a coded standard. A pre-defined set of health factors distributed by PCE is used by the distributed reminders. Facilities may create their own health factors to use in locally defined reminders. The health factors defined for evaluating patient data for this reminder are defined in the "Health Factor Findings" fields. Based on the patient health factor findings, a reminder's frequency and minimum and maximum age criteria can be changed. Text may be defined which will be displayed in the Health Summary "Clinical Maintenance" component to reflect health factor findings found or not found in the patient data.

PCE's "V HEALTH FACTORS" file represents a patient's health factors recorded as of a given encounter date. All health factors defined in the reminder are used to evaluate patient information in the V HEALTH FACTORS File. Out of all the health factor findings, the most recent health factor finding within each health factor category will be used for the reminder processing.

Health factors can be used to record "pertinent negative findings," for example "lifetime non-smoker." Pertinent negative findings can be used to make a reminder non-applicable via an "AND NOT" entry in the Use in Apply Logic field. The health factor file contains INACTIVATE and ACTIVATE health factors for each NCHP (VA-* prefixed) reminder. The VA-* reminder definitions provide examples of how the INACTIVATE health factor can be used to stop a reminder for a particular patient. This provides a generic mechanism to record pertinent negatives. The Health Factor Comment field can be used to record the reason for inactivating the reminder.

Computed Findings may also be used in the reminder logic. Computed Findings are based on the evaluation of M logic as true or false. The distributed reminders include an example of computed findings to evaluate patient height and weight information to calculate the Body Mass Index (BMI) and compare it to a national standard of 27 indicating obesity. Local facilities may program their own computed findings for use with reminders.

A complete description of the elements of this file and how they actually define a reminder can be found in Appendix A (Developing and Customizing Clinical Reminders) of the PCE User Manual.

Each processing step of the reminder logic can create output. This output is stored in a working array that is built up as the reminder is processed.

Appendix A-6: Technical Overview of Reminder Logic, cont d

General reminder logic:

The general logic is very similar for every reminder. Specific differences for each reminder type can be found in the Reminder Type file.

SEX SPECIFIC - If the reminder is sex-specific, the sex of the patient is compared with the reminder sex. If the patient is the wrong sex, go to step OUTPUT; otherwise continue.

HEALTH FACTORS - If there are health factors associated with the reminder they are compared with the health factors associated with the patient. These are found in the file AUPNVHF. Any matching health factors are stored in the health factor array HFA.

STANDARD CODED ITEMS - Standard coded items are specified for the reminder by a list of Taxonomies. The entries in the Taxonomy files specify a range of codes (low to high) and the file the codes come from. The permissible taxonomy entries are ICD diagnosis (file 80 ICD9), ICD operation/procedure (file 80.1 ICD0), and CPT (file 81 ICPT). For each taxonomy entry, a list of internal entry numbers (iens) corresponding to the codes within the specified range is built. These lists are ICD9IEN, ICD0IEN, and ICPTIEN. Next a list of iens is built for the patient. ICD9 patient entries are searched for in the Problem of Visit file V POV (AUPNVPOV), the Patient Treatment file (DGPT), and the Problem file (AUPNPROB). We search for ICD0 entries in DGPT and ICPT entries in V CPT (AUPNVCPT). The patient entries and taxonomy entries are examined for matches. The most recent entry is retained. In the case of ICD9, the most recent entry in each of the possible search files is retained.

COMPUTED FINDINGS - If a computed finding has been defined for the reminder, it is evaluated.

BASELINE CRITERIA - The baseline values for minimum age, maximum age, and reminder frequency are established by determining the appropriate age range for the patient.

FINAL CRITERIA - Each computed finding, health factor, and taxonomy can have a minimum age, maximum age, and frequency associated with it. When a particular item is found and it has a minimum age, maximum age, and frequency, the baseline values are replaced by these values. In the case where there is more than one applicable computed finding, health factor, or taxonomy, and there are conflicting ages or frequencies, the conflict is resolved by: 1) using the rank frequency field to specify the ranking, with number 1 being the highest rank frequency. 2) (when rank frequency not defined) using the frequency and age range that has the frequency that will make the reminder be given most often.

AGE CHECK - After the previous step is complete, final values for minimum age and maximum age are available. A null value has special significance. It means that no check is to be made. Thus, if the minimum age is null and the maximum age is 65, the reminder is applicable to all patients through age 65. If the patient does not meet the age criteria, we go to step OUTPUT; otherwise we continue.

Appendix A-6: Technical Overview of Reminder Logic, cont d

APPLY LOGIC - An optional "apply logic" string can be given as part of the reminder definition. When it is not modified by a user, a default APPLY LOGIC string is created, based on the reminder definition. The string specifies Boolean logical combinations of computed findings, health factors, and taxonomies. This gives us the ability to precisely define when the reminder should be given. For example, we could require that a particular taxonomy be found before the reminder is given. The USE IN APPLY LOGIC field for the taxonomy is defined with "AND." The default logic looks for all USE IN APPLY LOGIC references to build the APPLY LOGIC string. The string is in the form of a MUMPS logical string. An example is (SEX)&(AGE)&(TF(5)). SEX and AGE will always be part of the default APPLY LOGIC. The USE IN APPLY LOGIC field for taxonomies, health factors, and computed findings can be defined as "AND," "OR," "AND NOT," "OR NOT" logic, as needed.

TARGET PATIENT ENTRIES - A list of all the patient's entries in the target file is built. The specific targets depend upon the reminder. They can be found in the Reminder Type file.

MOST RECENT TARGET DATE - The patient list is matched against the entries in the target file for the reminder topic and the date the reminder was last given is determined.

DUE DETERMINATION - The date found in the previous step along with the dates for any taxonomies, health factors, and computed findings that have USE IN DATA DUE CALC marked as YES are compared to find the most recent date. The most recent date, the final reminder frequency, and do in advance time are used to determine when the reminder is due.

OUTPUT - The final step is to take all the information stored in the working array and format it for Health Summary to display.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders

Introduction

The Clinical Reminders/Clinical Maintenance portion of PCE (namespace PXRM) can be called by Health Summary to provide clinical reminder or maintenance information for a patient. The PXRM routines and associated data files have been developed to allow sites maximum flexibility both for customizing reminders and for developing new ones. This appendix section provides detailed information about customizing or developing new reminders.

The easiest way to create a new reminder is to copy an existing one and then edit it. Menu options to aid the customization and development of new reminders include *PXRM Reminder Copy*, *PXRM Reminder Edit*, *PXRM Taxonomy Copy*, and *PXRM Taxonomy Edit*.

Files associated with PXRM:

PCE REMINDER/MAINTENANCE ITEM (#811.9)

PCE REMINDER TYPE (#811.8)

PCE TAXONOMY (#811.2)

The contents and use of each of these files are described below.

Reminder Definition

The primary file is PCE REMINDER/MAINTENANCE ITEM, which provides the definition of a reminder item. The other two files provide auxiliary information required for defining the item. Since the ability to set up or modify an item requires an understanding of the contents of this file, each of the fields is described below.

Group 0

```
^PXD(811.9,D0,0)= (#.01) NAME [1F] ^ (#1) REMINDER TYPE [2P] ^ (#1.2) PRINT  
==>NAME [3F] ^ (#1.3) DO IN ADVANCE TIME FRAME [4F] ^ (#1.4)  
==>RELATED REMINDER STANDARD [5P] ^ (#1.6) INACTIVE FLAG [6S]  
==>^ ^ (#1.8) IGNORE ON N/A [8F] ^ (#1.9) SEX SPECIFIC [9S] ^
```

NAME—This is the name of the reminder; examples: VA-BLOOD PRESSURE, VA-MAMMOGRAM, and VA-CHOLESTEROL.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

REMINDER TYPE—This is a pointer to the PCE REMINDER TYPE file and defines the type of reminder. The defined types are EDUCATION, EXAMINATION, IMMUNIZATION, MEASUREMENT, PROCEDURE, RADIOLOGY, and SKIN TEST. Every reminder must be one of these types.

PRINT NAME—This is the name that will be used when the reminder is printed in the Health Summary.

DO IN ADVANCE TIME FRAME—This is a time window used in the due now calculation. If a reminder was due in 20 days and this parameter had the value 30D, then the reminder would be marked as due now. However, if the reminder was due in 35 days it would not be marked as due.

See the reminder frequency description in Group 7 for a description of how to enter time units.

RELATED REMINDER STANDARD This is a pointer to one of the NCHP reminders distributed with the Clinical Reminders. It is used to mark a reminder as meeting or exceeding the requirements of a particular NCHP reminder.

INACTIVE FLAG—This flag marks a reminder as active or inactive for use by Health Summary. The option (IN)/ACTIVATE REMINDERS can be used to change this flag.

IGNORE ON N/A The default behavior of the Clinical Maintenance component is to give a message that a reminder is non-applicable, N/A, due to the patient's sex or age. This field is a string consisting of single letters that will prevent these messages from being displayed. To prevent the age message from being displayed this field should contain an A. Similarly, for sex it should contain an S.

SEX SPECIFIC—This field is used to make a reminder sex-specific. The entry is a single letter code, F for female and M for male. If it is left blank, then the reminder is applicable for either sex.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
^PXD(811.9,D0,1,0)=^811.92^^ (#2) REMINDER DESCRIPTION
^PXD(811.9,D0,1,D1,0)= (#.01) REMINDER DESCRIPTION [1W] ^
```

REMINDER DESCRIPTION—This word processing field is used to provide a description of the reminder. This allows for documentation of the reminder within the file.

Group 2

```
^PXD(811.9,D0,2,0)=^811.93^^ (#3) TECHNICAL DESCRIPTION
^PXD(811.9,D0,2,D1,0)= (#.01) TECHNICAL DESCRIPTION [1W] ^
```

TECHNICAL DESCRIPTION This is the technical description of the reminder.

Group 3

```
^PXD(811.9,D0,3,0)=^811.94P^^ (#4) TARGET RESULT FINDINGS
^PXD(811.9,D0,3,D1,0)= (#.01) TARGET RESULT FINDINGS FILE [1P] ^
^PXD(811.9,D0,3,D1,1,0)=^811.941^^ (#1) TARGET RESULT DESCRIPTION
^PXD(811.9,D0,3,D1,1,D2,0)= (#.01) TARGET RESULT DESCRIPTION [1W] ^
^PXD(811.9,D0,3,D1,2,0)=^811.944V^^ (#4) TARGET RESULT FINDINGS ITEM
^PXD(811.9,D0,3,D1,2,D2,0)= (#.01) TARGET RESULT FINDINGS ITEM [1V] ^
^PXD(811.9,D0,3,D1,3,0)=^811.945^^ (#5) TARGET RESULT FOUND TEXT
^PXD(811.9,D0,3,D1,3,D2,0)= (#.01) TARGET RESULT FOUND TEXT [1W] ^
^PXD(811.9,D0,3,D1,4,0)=^811.946^^ (#6) TARGET RESULT NOT FOUND TEXT
^PXD(811.9,D0,3,D1,4,D2,0)= (#.01) TARGET RESULT NOT FOUND TEXT [1W] ^
```

TARGET RESULT FINDINGS FILE This is a pointer to target file. For example, if the reminder was of type education then the target file would be the Education Topics file.

TARGET RESULT DESCRIPTION—This provides a description of the items targeted by the reminder.

TARGET RESULT FINDINGS ITEM—This multiple is a variable pointer to the specific items targeted by the reminder. For example, the targets for education reminders can be selected from the education topics defined in the Education Topics file. For immunization reminders, the targets can be selected from immunizations defined in the Immunization file. See the distributed reminders for further examples.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

TARGET RESULT FOUND TEXT—If there is a record of the patient having received the target item, for example a particular education topic, then the found text will be passed to Health Summary for display.

TARGET RESULT NOT FOUND TEXT— If there is no record of the patient having received the target item, then the Not Found Text will be passed to Health Summary for display.

NOTE: FOUND TEXT and NOT FOUND TEXT

Groups 3, 4, 6, 7 (AGE MATCH TEXT, AGE NO MATCH TEXT), and 10 contain FOUND TEXT and NOT FOUND TEXT entries.

Each of these entries is optional and will only be returned for display by Health Summary if it is present.

Group 4

```
^PXD(811.9,D0,4,0)=^811.95P^^ (#5) TAXONOMY FINDINGS
^PXD(811.9,D0,4,D1,0)= (#.01) TAXONOMY [1P] ^ (#1) MINIMUM AGE [2N] ^ (#2)
    ==>MAXIMUM AGE [3N] ^ (#3) REMINDER FREQUENCY [4F] ^ (#6)
    ==>RANK FREQUENCY [5N] ^ (#7) USE IN DATE DUE CALC [6S] ^
    ==>(#8) USE IN APPLY LOGIC [7S] ^
^PXD(811.9,D0,4,D1,1,0)=^811.954^^ (#4) FOUND TEXT
^PXD(811.9,D0,4,D1,1,D2,0)= (#.01) FOUND TEXT [1W] ^
^PXD(811.9,D0,4,D1,2,0)=^811.955^^ (#5) NOT FOUND TEXT
^PXD(811.9,D0,4,D1,2,D2,0)= (#.01) NOT FOUND TEXT [1W] ^
^PXD(811.9,D0,4.1,0)=^811.95051^^ (#5.1) TAXON GENERAL FOUND TEXT
^PXD(811.9,D0,4.1,D1,0)= (#.01) TAXON GENERAL FOUND TEXT [1W] ^
^PXD(811.9,D0,4.2,0)=^811.95052^^ (#5.2) TAXON GENERAL NOT FOUND TEXT
^PXD(811.9,D0,4.2,D1,0)= (#.01) TAXON GENERAL NOT FOUND TEXT [1W] ^
```

TAXONOMY—This is a pointer to the TAXONOMY file. The taxonomy entries have the form: low^high^file where low and high specify an inclusive range of applicable codes and file is the number of the file where the codes are located. The file number can be 80 (ICD diagnosis), 80.1 (ICD operation/procedure), or 81 (CPT).

Taxonomies are defined and given names which are used when setting up a reminder.

MINIMUM AGE—If the patient is found to have this taxonomy, this minimum age will override the baseline minimum age. If this is left blank, then the baseline minimum age will apply. This provides a mechanism to change the age requirements if a taxonomy is found. (See also Age Findings, Group 7.)

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

MAXIMUM AGE— This can override the baseline maximum age as with the minimum age above. (See also Age Findings, Group 7.)

REMINDER FREQUENCY This can override the baseline reminder frequency as with the minimum age above. (See also Age Findings, Group 7.)

RANK FREQUENCY If more than one taxonomy and/or Health Factor is found for a patient and each of these has its own frequency age range set, then a question arises concerning which one to use. Rank Frequency is used to answer the question. The frequency age range set from the finding with the highest Rank Frequency will be used. (The highest rank is 1.) If no ranking information is available then the software will use the frequency age range set with the frequency that will cause the reminder to be given most often.

USE IN DATE DUE CALC This field can have the value YES, NO, or blank. If it is YES then finding this taxonomy is equivalent to finding the target item. The most recent date for any of the coded values found in the taxonomy will be used in the Date Due calculation.

USE IN APPLY LOGIC The field specifies how the taxonomy is to be used in the Apply Logic, see Group 9. The allowed values are AND (&), OR (!), AND NOT (&), OR NOT (!), and blank. When it is blank the taxonomy is not used in the Apply Logic. When it contains one of the other values, which is a logical operator, it is included in the Apply Logic preceded by the specified operator.

FOUND TEXT—This text will be returned for display by Health Summary if the taxonomy is found.

NOT FOUND TEXT—This text will be returned for display by Health Summary if the taxonomy is not found.

TAXON GENERAL FOUND TEXT—If any of the taxonomies are found then this text will be returned for display by Health Summary.

TAXON GENERAL NOT FOUND TEXT—If none of the taxonomies are found then this text will be returned for display by Health Summary.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
^PXD(811.9,D0,6,0)=^811.911P^^ (#11) HEALTH FACTOR FINDINGS
^PXD(811.9,D0,6,D1,0)= (#.01) HEALTH FACTOR FINDINGS ITEM [1P] ^ (#1) MINIMUM
    ==>AGE [2N] ^ (#2) MAXIMUM AGE [3N] ^ (#3) REMINDER
    ==>FREQUENCY [4F] ^ (#6) RANK FREQUENCY [5N] ^ (#7) USE
    ==>IN DATE DUE CALC [6S] ^ (#8) USE IN APPLY LOGIC [7S] ^
^PXD(811.9,D0,6,D1,1,0)=^811.9114^^ (#4) FOUND TEXT
^PXD(811.9,D0,6,D1,1,D2,0)= (#.01) FOUND TEXT [1W] ^
^PXD(811.9,D0,6,D1,2,0)=^811.9115^^ (#5) NOT FOUND TEXT
^PXD(811.9,D0,6,D1,2,D2,0)= (#.01) NOT FOUND TEXT [1W] ^
^PXD(811.9,D0,6.1,0)=^811.9110111^^ (#11.1) HF GENERAL FOUND TEXT
^PXD(811.9,D0,6.1,D1,0)= (#.01) HF GENERAL FOUND TEXT [1W] ^
^PXD(811.9,D0,6.2,0)=^811.9110112^^ (#11.2) HF GENERAL NOT FOUND TEXT
^PXD(811.9,D0,6.2,D1,0)= (#.01) HF GENERAL NOT FOUND TEXT [1W] ^
```

HEALTH FACTOR— This is a pointer to the Health Factors file. Health factors that are associated with the reminder are included this way.

MINIMUM AGE—Just as with taxonomy, this minimum age can override the baseline minimum age if the Health Factor is found.

MAXIMUM AGE—The same as for the minimum age above.

REMINDER FREQUENCY— The same as for minimum age above.

RANK FREQUENCY The same as for taxonomy, see Group 4.

USE IN DATE DUE CALC The same as for taxonomy, see Group 4.

USE IN APPLY LOGIC The same as for taxonomy, see Group 4.

FOUND TEXT—This text will be returned for display by Health Summary if the Health Factor is found.

NOT FOUND TEXT—This text will be returned for display by Health Summary if the Health Factor is not found.

HF GENERAL FOUND TEXT— If any of the health factors are found then this text will be returned for display by Health Summary.

HF GENERAL NOT FOUND TEXT—If none of the health factors are found then this text will be returned for display by Health Summary.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
^PXD(811.9,D0,7,0)=^811.97^^ (#7) BASELINE AGE FINDINGS
^PXD(811.9,D0,7,D1,0)= (#.01) REMINDER FREQUENCY [1F] ^ (#1) MINIMUM
    ==>AGE [2N] ^ (#2) MAXIMUM AGE [3N] ^
^PXD(811.9,D0,7,D1,1,0)=^811.973^^ (#3) AGE MATCH TEXT
^PXD(811.9,D0,7,D1,1,D2,0)= (#.01) AGE MATCH TEXT [1W] ^
^PXD(811.9,D0,7,D1,2,0)=^811.974^^ (#4) AGE NO MATCH TEXT
^PXD(811.9,D0,7,D1,2,D2,0)= (#.01) AGE NO MATCH TEXT [1W] ^
```

Age findings provides a way to change the reminder frequency based on a patient's age. The age ranges are searched and if the patient's age lies between the minimum and maximum age these become the baseline frequency age range set. (A frequency age range set is a frequency and its associated minimum and maximum ages.) There cannot be any overlap between the age ranges because this gives rise to a conflict which cannot be resolved.

REMINDER FREQUENCY—The frequency to give the reminder. This is given as nD, nM, or nY, where D stands for days, M for months, Y for years, and n is a number. Thus, for a reminder that is to be given once a year, the values 365D, 12M, or 1Y would all work. (This format is used for all time-related entries.) There are two special reminder frequencies. The frequency 0Y means that the reminder is never to be given. This is used to create reminders that are given only to patients who have certain findings. For example the distributed VA-DIABETIC reminders are setup up so they are given only to patients who have the VA-DIABETIC taxonomy. The second special frequency is 99Y. This is used for reminders that are to be given once in a lifetime.

MINIMUM AGE—The minimum age associated with this reminder frequency.

MAXIMUM AGE—The maximum age associated with this reminder frequency.

AGE MATCH TEXT— If the patient's age lies in the specified age range, this text will be returned for display by the Health Summary.

AGE NO MATCH TEXT— If the patient's age does not lie in the specified age range, this text will be returned for display by the Health Summary.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

`^PXD(811.9,D0,9)= (#9) APPLY LOGIC [1F] ^`

APPLY LOGIC—This specifies how the findings for a reminder are to be used in determining if the reminder is applicable for a patient. The findings consist of any combination of computed findings, health factors, and taxonomies that are included in the reminder definition.

The Apply Logic used in the reminder evaluation can be created in one of two ways. If this field is left blank then the software will create an Apply Logic string starting with a default string of (SEX)&(AGE) appending each finding that has a non-blank Use in Apply Logic entry with the specified operator. As an example consider a reminder that contains taxonomy number 28 with a Use in Apply Logic entry of &. In this case the software will create an Apply Logic string of (SEX)&(AGE)&(TF(28)).

The other alternative is to specify the Apply Logic directly in the reminder definition. When this is done the software will use whatever is in the Apply Logic field ignoring any Use in Apply Logic fields. If this alternative is used care must be taken that the Apply Logic is written so that it will evaluate to a proper Mumps (M) logical. In order to do this you need to understand how the Apply Logic is used.

The Apply Logic is based on the M Boolean logical operators, & (AND) , ! (OR) and their negations & (AND NOT), ! (OR NOT). The & operator requires both items to be true in order to be true. The ! operator is true if either of the items is true. This is easiest to understand by looking at some examples.

Consider reminder number X which has the following taxonomy entries:

`^PXD(811.9,X,4,1,0)=7`
`^PXD(811.9,X,4,2,0)=11^40^75^6M^5^^^&`

and the following health factor entries:

`^PXD(811.9,X,6,1,0)=4^42^^1Y`
`^PXD(811.9,X,6,2,0)=9`

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

The default logic, which is created automatically if the Apply Logic is left blank, would be (SEX)&(AGE)&(TF(11)). SEX is evaluated if the reminder is sex-specific. It is set to true if the patient is the correct sex. If the reminder is not sex-specific, then SEX is always true. AGE is evaluated after the final frequency age range set has been established. It is set to true if the patient's age falls within the age range. If there is no age range specified for the reminder then AGE is always true. TF(11) stands for the taxonomy finding for taxonomy number 11. (Similarly HF stands for health factor finding and CF for computed finding.) Thus the default logic says that SEX, AGE, and TF(11) must all be true in order for the reminder to be applicable. Since health factors 4 and 9 have a blank Use in Apply Logic field they are not included in the Apply Logic and are used for information only.

If you require a more complex Apply Logic than the simple appending mechanism of the Use in Apply Logic provides then you must include the Apply Logic in the reminder definition. Some examples:

(SEX)&(AGE)&(HF(9)!(TF(7)) the reminder is applicable if SEX and AGE and either health factor 9 or taxonomy 7 is true (found).

(SEX)&(AGE)&(HF(9)&TF(7)) the reminder is applicable if SEX and AGE are true and neither health factor 9 or taxonomy 7 is true.

The Reminder Inquiry option can be used to see the Apply Logic string in both the numeric form and expanded form where the number is replaced by the name of the finding. This can be used to make sure that the Apply Logic used in the reminder evaluation is actually what you think it is.

Group 10

```
^PXD(811.9,D0,10,0)=^811.9001^^ (#10) COMPUTED FINDINGS
^PXD(811.9,D0,10,D1,0)= (#.01) ROUTINE [1F] ^ (#1) MINIMUM AGE [2N] ^ (#2)
    ==>MAXIMUM AGE [3N] ^ (#3) REMINDER FREQUENCY [4F] ^
    ==>(#4) SHORT DESCRIPTION [5F] ^ (#7) RANK FREQUENCY
    ==>[6N] ^ (#8) USE IN DATE DUE CALC [7S] ^ (#9) USE IN
    ==>APPLY LOGIC [8S] ^
^PXD(811.9,D0,10,D1,1,0)=^811.90015^^ (#5) FOUND TEXT
^PXD(811.9,D0,10,D1,1,D2,0)= (#.01) FOUND TEXT [1W] ^
^PXD(811.9,D0,10,D1,2,0)=^811.90016^^ (#6) NOT FOUND TEXT
^PXD(811.9,D0,10,D1,2,D2,0)= (#.01) NOT FOUND TEXT [1W] ^
```


Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

At this point we can see that reminder definitions are very flexible and easily customized. However, there may be cases where the requirements are not entirely met by the mechanisms described above. In these cases, computed findings can be used. Computed findings are M routines that return 1 for true and 0 for false. They can be used in the logic just like taxonomies and health factors.

ROUTINE—The name of an M routine that will be executed. For obvious reasons, only an experienced M programmer should attempt to create a computed factor routine. Programming details are given in the section Writing a Computed Finding Routine. This entry is specified in the form ENTRYPOINT;ROUTINE.

MINIMUM AGE—This is the minimum age associated with the computed finding routine and can be used to override the baseline minimum age.

MAXIMUM AGE—This is the maximum age associated with the computed finding routine and can be used to override the baseline maximum age.

REMINDER FREQUENCY—This is the reminder frequency associated with the computed finding routine and can be used to override the baseline reminder frequency.

SHORT DESCRIPTION This field can be used to contain a short description of what the Computed Finding does.

RANK FREQUENCY The same as for taxonomies, see Group 4.

USE IN DATE DUE CALC The same as for taxonomies, see Group 4.

USE IN APPLY LOGIC The same as for taxonomies, see Group 4.

How is the final frequency age range set determined?

As we have seen, there can be a minimum age, maximum age, and frequency associated with computed findings, health factors, and taxonomies that can override the baseline values. The question is: How is the final set determined?

The baseline values are set from the data in Group 7. The age range in which the patient's age falls sets the minimum age, maximum age, and frequency. Leaving a minimum age blank means that there is no minimum age for the reminder; therefore, the patient will always meet the minimum age requirement. The same holds true for maximum age.

Frequency is a different matter since a frequency is required to determine if a reminder is due. A special frequency of 0Y means that FOUND, NOT FOUND TEXT can be displayed, but the reminder can never come up as due, based on the finding associated with the 0Y frequency. Only those findings with a frequency greater than 0 can be used in the date due calculation. A frequency of 99Y can be used for reminders that are due once in a lifetime.

Each taxonomy, health factor, or computed finding can have an associated frequency age range set. If the finding is true—i.e., the patient has the taxonomy, health factor, etc.—the frequency age range set associated with the finding can override the baseline values. Generally this is done to widen the coverage of the reminder. For example, the VA-INFLUENZA IMMUNIZATION is given once a year to patients 65 and over. The baseline frequency age range set has a minimum age of 65, no maximum age, and a frequency of 1Y. The VA-HIGH RISK FOR FLU/PNEUMONIA taxonomy has no minimum age, maximum age, and a frequency of 1Y. Thus, for patients who have this taxonomy, the baseline frequency age range set is overridden and the reminder is applicable for all ages.

Rank Frequency field

In the case when there is more than one true finding and each has a frequency age range set, a method is needed to determine which one to use. The Rank Frequency field was added to meet this need. The frequency age range set with the highest rank (1 being the highest) will be used. If there are no Rank Frequency values available, then the frequency age range set that will cause the reminder to be given most often will be used. For example, if one frequency was 1Y and the other 6M, then 6M would be used since the reminder would be given every six months instead of once a year.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

Writing a Computed Finding Routine

A computed finding routine can be used in those cases when the general reminder logic does not provide the required functionality. Computed finding routines should be written as functions that return 1 for true and 0 for false. An example has been provided with the VA-NUTRITION/OBESITY EDUCATION reminder. The computed finding routine is PXRMOBES with entry point OBESE. This function looks up the patient's most recent height and weight measurements and then calculates the body mass index. If the BMI is greater than 27 it returns 1, meaning the patient is considered obese.

In addition to returning true or false, these functions may set INFO nodes of the working array ^TMP(PXR , \$J , WA). The information nodes have the format

```
^TMP( "PXR" , $J , "WA" , "INFO" , PXRITEM , RNAME , DESCRIPTION ) = TEXT
```

DESCRIPTION describes the type of information and TEXT is the information. TEXT will be displayed by the Clinical Maintenance Component of Health Summary. The routine should set DESCRIPTION and TEXT. The other indices are already defined.

In PXRMOBES the INFO nodes are used to return information such as no height or weight measurement available or to return the calculated value of the BMI.

Applicable Menu Options

The following menu options can be used to customize and develop new reminders:

- PXR Reminder Copy,
- PXR Reminder Edit,
- PXR Taxonomy Copy,
- PXR Taxonomy Edit,
- PXR Reminder Test.

The easiest way to create a new reminder is to copy an existing one and then edit it. Reminders that are distributed with PCE all begin with VA-. These are intended for national distribution and cannot be edited by a site. When a reminder is copied the user is prompted for a new unique name. A site cannot use the VA- prefix in their reminder names.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

PXRM REMINDER TEST

Before a new or modified reminder is put into production it should be thoroughly checked. The Reminder Test option provides a convenient tool that can be used as an aid in setting up new reminders and tracking down problems with existing ones. It lets a reminder be run without going through Health Summary.

To get the most out of using this option you should be familiar with setting up a reminder. This is explained in the Clinical Reminders portions of the PCE User Manual. Relevant sections include Chapter 10 and Appendix A.

When this option is executed, it prompts the user for a patient and then a reminder.

Sample output:

```
Select OPTION NAME:  PXRM REMINDER TEST  Reminder Test
Select Patient:  OUTPATIENT,EDNA          04-01-44      234776641      YES      SC
VETERAN
Select Reminder:  VA-DIABETIC FOOT EXAM

The elements of the ^TMP("PXRM",$J,"DISC") array are:
^TMP("PXRM",$J,"DISC","1")=The following disease screening, immunization and patient
education^TMP("PXRM",$J,"DISC","2")=recommendations are offered as guidelines to
assist in your practice.
^TMP("PXRM",$J,"DISC","3")=These are only recommendations, not practice standards.
The^TMP("PXRM",$J,"DISC","4")=appropriate utilization of these for your individual
patient must be^TMP("PXRM",$J,"DISC","5")=based on clinical judgment and the
patient's current status.

The elements of the ^TMP("PXRM",$J,"WA") array are:
^TMP("PXRM",$J,"WA","DUE","43","Diabetic Foot Exam")=No Diabetic Foot Exam on
record^2970304
^TMP("PXRM",$J,"WA","ICD9PROB","28","CODE")=250.01
^TMP("PXRM",$J,"WA","ICD9PROB","28","DATE")=2960926
^TMP("PXRM",$J,"WA","ICD9PROB","28","ICD9IEN")=851
^TMP("PXRM",$J,"WA","ICD9PROB","28","PN")=DIABETES MELLI W/0 COMP TYP I

^TMP("PXRM",$J,"WA","ICD9VPOV","28","CODE")=250.13
^TMP("PXRM",$J,"WA","ICD9VPOV","28","DATE")=2960918.09
^TMP("PXRM",$J,"WA","ICD9VPOV","28","ICD9IEN")=12830
^TMP("PXRM",$J,"WA","ICD9VPOV","28","MOD")=
^TMP("PXRM",$J,"WA","ICD9VPOV","28","PN")=DIABETES W/ KETOACIDOSIS,TYPE
I[IDDM][JUVENILE TYPE],UNCONTROLLED
^TMP("PXRM",$J,"WA","INFO","43","Diabetic Foot Exam","VA-DIABETES_FOUNDB")=Complete
foot exam required annually for all diabetic patients.
^TMP("PXRM",$J,"WA","INFO","43","Diabetic Foot Exam","zFREQARNG")=Final Frequency
and Age Range used: 1 year for all ages.
^TMP("PXRM",$J,"WA","LOGIC")=1^(SEX)&(AGE)&(TF(28))^(1)&(1)&(1)
^TMP("PXRM",$J,"WA","RANK","0","365.04","0","0")=TFIND^28
```

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
The elements of the ^TMP("PXRHM",$J) array are:
^TMP("PXRHM",$J,"43","Diabetic Foot Exam")=DUE NOW^2970304^unknown
^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","1")=9/26/96 Problem Diagnosis:
250.01-DIABETES MELLI W/O COMP TYP I^TMP("PXRHM",$J,"43","Diabetic Foot
Exam","TXT","2")=9/18/96 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","3")=Complete foot exam required
annually for all diabetic patients.^TMP("PXRHM",$J,"43","Diabetic Foot
Exam","TXT","4")=Final Frequency and Age Range used: 1 year for all ages.

Press RETURN to continue...
```

The output from this option provides a view of the internal workings of the clinical reminders software and allows you to see what happened as the reminder was evaluated. Errors and warnings that are not always seen on the Health Summary are displayed here. When setting up a reminder, it s a good idea to have test patients with known clinical data such as examinations, immunizations, ICDs, CPTs, etc., that are pertinent to the reminder being developed. Using this option to run the reminder for test patients allows you to see if the reminder operates as expected.

Found and Not Found Text can be included in a number of places in the reminder definition. An example is taxonomies. The Found Text will be displayed if the taxonomy is found and the Not Found Text will be displayed if the taxonomy is not found. This text is optional and should only be included if you want something displayed.

The text should be chosen with care because it can give misleading information within the total context of the findings. For example, consider a skin test reminder. The reminders software searches the V Skin Test file and for a coded value if there is a taxonomy. Confusion could arise if the taxonomy Not Found Text was No skin test found and the reminders found an entry in the V Skin Test File but no match on the taxonomy. The Health Summary would show the date of the skin test and the message No skin test found. A less confusing Not Found Text would be No CPT for skin test found. You should review your output to make sure that it makes sense.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

Output Explanations

An explanation of each piece of the [PXRMR REMINDER TEST] output follows. This explanation assumes that you are familiar with the various elements that comprise a reminder definition.

Example 1

```
The elements of the ^TMP("PXRMR",$J,"DISC") array are:
^TMP("PXRMR",$J,"DISC","1")=The following disease screening, immunization and pat
ient education^TMP("PXRMR",$J,"DISC","2")=recommendations are offered as guidelines
to assist in your practice.
^TMP("PXRMR",$J,"DISC","3")=These are only recommendations, not practice standard
s. The^TMP("PXRMR",$J,"DISC","4")=appropriate utilization of these for your
individualpatient must be
^TMP("PXRMR",$J,"DISC","5")=based on clinical judgment and the patient's current
status.
```

^TMP(PXRMR , \$J, DISC) is a formatted array containing the disclaimer that is displayed at the beginning of the Clinical Maintenance or Clinical Reminders component of Health Summary.

^TMP(PXRMR , \$J, WA) is the working array used by the reminders software to store data during processing. Examining this array provides detailed information about what was found or not found during the reminder evaluation. The first three subscripts PXRMR , \$J, WA can be ignored, they just provide a unique storage area in the computer s memory. The remaining subscripts do contain useful information. The entries seen in ^TMP(PXRMR , \$J, WA , reflect what was found when the reminder was evaluated for a specific patient. Therefore the subscripts seen and the order they appear will vary.

```
^TMP("PXRMR",$J,"WA","DUE","43","Diabetic Foot Exam")=No Diabetic Foot Exam on
record^2970304
```

The DUE subscript tells us the reminder is due, 43 is the reminder internal entry number, and Diabetic Foot Exam is the name of the reminder. The text on the right side of the equal sign tells us that no past diabetic foot exam was found and the second piece is the date the reminder was run and will appear on the Health Summary as the date due, i.e., the reminder is due on 3/4/97.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
^TMP("PXRMR", $J, "WA", "ICD9PROB", "28", "CODE")=250.01
^TMP("PXRMR", $J, "WA", "ICD9PROB", "28", "DATE")=2960926
^TMP("PXRMR", $J, "WA", "ICD9PROB", "28", "ICD9IEN")=851
^TMP("PXRMR", $J, "WA", "ICD9PROB", "28", "PN")=DIABETES MELLI W/O COMP TYP I
```

This group of lines tells us that an ICD9 entry was found in the Problem List. (Other file abbreviations for ICD9 entries are DGPT (Patient Treatment File), and VPOV (V Purpose of Visit File)). The taxonomy containing this code was number 28. The ICD9 code is 250.01, the date in Fileman format is 2960926, the ICD9 internal entry is 851 and the provider narrative is DIABETES MELLI W/O COMP TYP I .

```
^TMP("PXRMR", $J, "WA", "ICD9VPOV", "28", "CODE")=250.13
^TMP("PXRMR", $J, "WA", "ICD9VPOV", "28", "DATE")=2960918.09
^TMP("PXRMR", $J, "WA", "ICD9VPOV", "28", "ICD9IEN")=12830
^TMP("PXRMR", $J, "WA", "ICD9VPOV", "28", "MOD")=
^TMP("PXRMR", $J, "WA", "ICD9VPOV", "28", "PN")=DIABETES W/ KETOACIDOSIS,TYPE
I[IDDM][JUVENILE TYPE],UNCONTROLLED
```

This group of lines tells us that an ICD9 entry was found in the V Purpose of Visit file. The other entries are the same as in the previous group.

```
^TMP("PXRMR", $J, "WA", "INFO", "43", "Diabetic Foot Exam", "VA-DIABETES_FOUNDB")=Complete
foot exam required annually for all diabetic patients.
```

This is the Found Text array as defined in the reminder. In this case the Found Text comes from taxonomy 28, VA-DIABETES .

```
^TMP("PXRMR", $J, "WA", "INFO", "43", "Diabetic Foot Exam", "zFREQARNG")=Final Frequency
and Age Range used: 1 year for all ages.
```

This line tells us the final frequency and age range used in the date due calculation.

```
^TMP("PXRMR", $J, "WA", "LOGIC")=1^(SEX)&(AGE)&(TF(28))^1&1&1
```

This line is one of the most important in the output. It gives all the information concerning the APPLY LOGIC. There are three pieces separated by ^. The second piece is the APPLY LOGIC string used to determine if the reminder should be given. In order for the reminder to be given, SEX, AGE, and taxonomy finding 28, TF(28), all have to be true. In this case, the taxonomy finding was true because one of the codes in the taxonomy was found in the patient's clinical data. The third piece shows us the outcome of the finding evaluation; in this example they are all true. (True is represented by 1 and false by 0.) The first piece is the logical evaluation of the third piece. In this case, the APPLY LOGIC evaluates to true, so the reminder will be given. When the APPLY LOGIC evaluates to false, the reminder is Not Applicable, N/A.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
^TMP("PXRHM",$J,"WA","RANK","0","365.04","0","0")=TFIND^28
```

This line gives information about the ranking process used to determine the final frequency age range set. The subscript immediately following `RANK` is the rank value. When no rank value has been defined in the reminder, the value will be `0`. For this example, there is no `rank` so we determine the frequency age range set to use based on the frequency which causes the reminder to be given the most often. The `365.04` is the conversion of the final frequency, one year (1Y) to days. The smallest value of frequency in days is the one that will cause the reminder to be given most often. The two subscripts following the frequency correspond to minimum age and maximum age. A value of `0` for these subscripts has special significance -- it means that there is no minimum or no maximum age. The value on the right side of the equal sign indicates that this frequency came from a taxonomy finding (TFIND) and the internal entry number of the taxonomy was 28.

The elements of the `^TMP("PXRHM",$J)` array are:

```
^TMP("PXRHM",$J,"43","Diabetic Foot Exam")=DUE NOW^2970304^unknown
^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","1")=9/26/96 Problem Diagnosis:
250.01-DIABETES MELLI W/O COMP TYP I^TMP("PXRHM",$J,"43","Diabetic Foot
Exam","TXT","2")=9/18/96 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","3")=Complete foot exam required
annually for all diabetic patients.^TMP("PXRHM",$J,"43","Diabetic Foot
Exam","TXT","4")=Final Frequency and Age Range used: 1 year for all ages.
```

The `^TMP("PXRHM",$J)` array is the final information that is passed to Health Summary for display. The output in the Health Summary will reformat the date into an external format, display it, and then display the text lines.

Example 2

```
Select Patient: OUTPATIENT,EDNA          04-01-44      234776641      YES      SC
VETERAN
Select Reminder: VA-MAMMOGRAM
```

This is our input to the option.

The elements of the `^TMP("PXRHM",$J,"DISC")` array are:

```
^TMP("PXRHM",$J,"DISC","1")=The following disease screening, immunization and patient
education ^TMP("PXRHM",$J,"DISC","2")=recommendations are offered as guidelines to
assist in your practice. ^TMP("PXRHM",$J,"DISC","3")=These are only recommendations,
not practice standards. The ^TMP("PXRHM",$J,"DISC","4")= appropriate utilization of
these for your individual patient must be ^TMP("PXRHM",$J,"DISC","5")=based on
clinical judgment and the patient's current status.
```

This is the reminder disclaimer.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
The elements of the ^TMP("PXR", $J, "WA") array are:  
^TMP("PXR", $J, "WA", "AF_FNF", "2")=AF 2 FOUND
```

The AF_FNF subscript corresponds to Age Finding Found Not Found information. There was a match between the patient's age and Baseline Age Finding number 2.

```
^TMP("PXR", $J, "WA", "HF", "43", "DATE")=2960429  
^TMP("PXR", $J, "WA", "HF", "43", "FREQ")=  
^TMP("PXR", $J, "WA", "HF", "43", "MAXAGE")=  
^TMP("PXR", $J, "WA", "HF", "43", "MINAGE")=
```

This group of lines provides Health Factor information. The Health Factor with internal entry number 43 was found and the date was 2960429. There was no frequency or age range associated with this Health Factor.

```
^TMP("PXR", $J, "WA", "ICPT", "16", "CODE")=76092  
^TMP("PXR", $J, "WA", "ICPT", "16", "DATE")=2970221.142333  
^TMP("PXR", $J, "WA", "ICPT", "16", "ICPTIEN")=76092  
^TMP("PXR", $J, "WA", "ICPT", "16", "PN")=MAMMOGRAM, SCREENING  
^TMP("PXR", $J, "WA", "ICPT", "16", "SNAME")=MAMMOGRAM, SCREENING
```

This group of lines tells us that CPT information was found. The CPT code was 76092 and it came from taxonomy 16. The date was 2970221, the CPT file internal entry number was 76092, the provider narrative from the V CPT file was MAMMOGRAM, SCREENING, and the CPT short name from the CPT file was MAMMOGRAM, SCREENING.

```
^TMP("PXR", $J, "WA", "INFO", "19", "Mammogram", "AF 2 FOUNDB")=Women ages 50-69 should  
receive a mammogram every two years.
```

This is Found Text for the Age Finding 2 defined in the reminder.

```
^TMP("PXR", $J, "WA", "INFO", "19", "Mammogram", "HFC1")=Health Factor comments:  
Activate health factor comments
```

This is a Health Factor comment from the patient's V Health Factor findings.

```
^TMP("PXR", $J, "WA", "INFO", "19", "Mammogram", "VA-BREAST TUMOR NOT_FOUNDB")=No history  
of breast cancer/tumor on file.
```

This is Not Found Text for taxonomy 19.

```
^TMP("PXR", $J, "WA", "INFO", "19", "Mammogram", "WARNING", "TAX")=Taxonomy 18 entry V  
10.3^V10.3 does not have a source file, assuming file 80.
```

This is warning information and it will not be displayed on the Health Summary. The text is self-explanatory once you remember that a taxonomy entry requires a low coded value, a high coded value, and a source file.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

This entry in taxonomy 18 has a low coded value of V10.3, a high coded value of V10.3 and the source file is missing. To process the reminder a source file is required. In order to continue, the reminder's logic assumes that it is file 80, the ICD diagnosis file. If you really wanted the CPT or ICD operation/procedures file then you should change the taxonomy.

Some other warnings you might see:

Warning no reminder frequency, cannot calculate date due!

This means the reminders software was not able to establish a frequency. Most likely, it was left out of the Baseline Age Findings.

Warning no do in advance time

There was no do in advance time in the reminder definition, the reminders software will use 0 in the date due calculation.

```
^TMP("PXRMR",$J,"WA","INFO","19","Mammogram","zFREQARNG")=Final Frequency and Age  
Range used: 2 years for ages 50 to 69.
```

This is the final frequency and age range information used in the date due calculation. This comes from the rank and frequency evaluation discussed above.

```
^TMP("PXRMR",$J,"WA","LOGIC")=1^(SEX)&(AGE)&'(HF(42))^(1)&(1)&'(0)
```

This is the APPLY LOGIC string and provides an example of how the INACTIVATE Health Factors work. The INACTIVATE Health Factor for this reminder is HF(42) so the logical operator is &. We can see this reminder has not been inactivated for this patient because HF(42) is false. SEX and AGE are true, so the entire APPLY LOGIC string evaluates to true; therefore the reminder will be given.

```
^TMP("PXRMR",$J,"WA","NOTDUE","19","Mammogram")=Mammogram due on^2990221.142333^2  
970221.142333
```

This tells that the reminder is not due. It is due on 2990221 and was last given on 2970221.

```
^TMP("PXRMR",$J,"WA","RAD","436","CPT")=76091  
^TMP("PXRMR",$J,"WA","RAD","436","DATE")=2960826  
^TMP("PXRMR",$J,"WA","RAD","436","NAME")=MAMMOGRAM BILAT  
^TMP("PXRMR",$J,"WA","RAD","436","SNAME")=MAMMOGRAM, BOTH BREASTS
```

These lines tell us that radiology information was found. The number 436 is the radiology procedure pointer. The CPT code is 76091, the date of the procedure is 2960826, the name of the radiology procedure is MAMMOGRAM BILAT, and the CPT short name is MAMMOGRAM, BOTH BREASTS.

Appendix A-7: Developer's Guide—Developing And Customizing Clinical Reminders, cont d

```
^TMP("PXRHM",$J,"WA","RDATE","2970221.142333")=TFDATE^16
```

This line tells that the date used in the date due calculation was 2970221 and that it came from a taxonomy finding for taxonomy number 16. Notice that this date is more recent than the date of the radiology procedure. This is an example of how the Use in Date Due Calc field works.

```
The elements of the ^TMP("PXRHM",$J) array are:
^TMP("PXRHM",$J,"19","Mammogram")=^2990221.142333^2970221.142333
^TMP("PXRHM",$J,"19","Mammogram","TXT","1")=4/29/96 Health Factor: ACTIVATE BREAST
CANCER SCREEN
^TMP("PXRHM",$J,"19","Mammogram","TXT","2")=2/21/97 Encounter Procedure: 76092-
MAMMOGRAM, SCREENING
^TMP("PXRHM",$J,"19","Mammogram","TXT","3")=Women ages 50-69 should receive a
mammogram every two years.
^TMP("PXRHM",$J,"19","Mammogram","TXT","4")=Health Factor comments: Activate health
factor comments
^TMP("PXRHM",$J,"19","Mammogram","TXT","5")=No history of breast cancer/tumor on
file. ^TMP("PXRHM",$J,"19","Mammogram","TXT","6")=Final Frequency and Age Range
used: 2 years for ages 50 to 69. ^TMP("PXRHM",$J,"19","Mammogram","TXT","7")=8/26/96
Radiology Procedure: 76091-MAMMOGRAM, BOTH BREASTS; MAMMOGRAM
^TMP("PXRHM",$J,"19","Mammogram","TXT","8")=BILAT
```

Finally, this is the information as it is returned to Health Summary.

Appendix A-8: Distributed Reminder Definitions

VA-*BREAST CANCER SCREEN

Reminder Type: PROCEDURE

Print Name: Breast Cancer Screen

Related VA-* Reminder: VA-*BREAST CANCER SCREEN

Reminder Description:

Mammogram should be given every 2 years to female patients, ages 50-69.

The "VA-*Breast Cancer Screen" reminder is based on the following "Breast Cancer Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Early detection of breast cancer.

Target Group: All women ages 50-69.

Recommendation: All women ages 50-69 should receive a mammogram every two years.

Goals for FY2000: At least 60% of women ages 50-69 have received a mammogram within the preceding two years.

Technical Description:

The findings for mammogram screening are based on defining CPT codes and V-codes from the ICD Diagnosis file that represent mammograms and mammogram screening in a taxonomy for Mammogram/Screen. The CPT codes are used to search the Radiology procedures in the Radiology package, as well as checks for existence of a CPT code in the V CPT file. The V-codes are used to search the Problem List, V POV (problems of visits), and Inpatient Diagnosis PTF files.

The reminder will be "DUE NOW" until a procedure or diagnosis (V-code) is documented to reflect a mammogram/screening done at a current encounter or a historical encounter within the past two years.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: FEMALE

Ignore on N/A: S

Frequency for Age Range: 2 years for ages 50 to 69

Match Text: All women ages 50-69 should receive a mammogram every two years.

No Match Text:

Targeted Result Findings for PROCEDURE reminder type:

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-MAMMOGRAM/SCREEN (TF(16))
Match freq/age: 2 years for ages 50 to 69
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text: History of mammogram/screen on file.
No Match Text: Date of last mammogram/screen unknown.

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE BREAST CANCER SCREEN (HF(42))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE BREAST CANCER SCREEN (HF(43))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(42))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE BREAST CANCER SCREEN))

VA-*CERVICAL CANCER SCREEN

Reminder Type: PROCEDURE
Print Name: Pap Smear
Related VA-* Reminder: VA-*CERVICAL CANCER SCREEN

Appendix A-8: Distributed Reminders Definitions, cont d

Reminder Description:

This reminder is based on the "Cervical Cancer Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Early detection of cervical cancer.

Target Group: Women age 65 and under.

Recommendation: Papanicolaou (Pap) smear testing is recommended for all sexually active women every three years until age 65. Pap testing may be discontinued after age 65 if previous smears have been consistently normal.

Goal for FY 2000: 95% of women have received at least one Pap test in their lifetime and 85% of women age 65 and under received one in the past three years.

Technical Description:

Copy the reminder to a new reminder for your local site modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Wait until actually DUE
Sex Specific: FEMALE
Ignore on N/A: S

Frequency for Age Range: 3 years for ages 65 and younger
Match Text: Women ages 65 and younger should receive a cervical cancer screen every 3 years.
No Match Text: Pap smear screen not indicated for women over 65.

Targeted Result Findings for PROCEDURE reminder type:

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-CERVICAL CANCER SCREEN (TF(30))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text: No record of cervical cancer screen taxonomy on file

General Match Text:
General No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

2 Health Factor Findings:

Health Factor: INACTIVATE CERVIX CANCER SCREEN (HF(44))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE CERVIX CANCER SCREEN (HF(47))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(44))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE CERVIX CANCER SCREEN))

VA-*CHOLESTEROL SCREEN (F)

Reminder Type: LABORATORY TEST
Print Name: Cholesterol Screen (Female)
Related VA-* Reminder: VA-*CHOLESTEROL SCREEN (F)

Reminder Description:

This Cholesterol screen reminder for females is based on the following "Hyperlipidemia Detection" guidelines specified in the "VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cardiovascular Disease.

Target Group: Females 45-65.

Recommendation: Check total cholesterol level within the past five years.

Goal for FY 2000: 75% of females ages 45-65 Primary Care clinic patients have had a blood cholesterol level check within the past five years.

Appendix A-8: Distributed Reminders Definitions, cont d

Technical Description:

As distributed, this reminder is based on CPT codes which represent cholesterol tests the patient has had documented in PCE. These may be CPT codes for cholesterol done by the Laboratory Service, or a historical encounter documented to show when the cholesterol test was last given to the patient.

Copy this reminder to a new reminder for your site. Add the Laboratory Tests that represent a cholesterol level check in the Result Findings multiple.

PLEASE NOTE: Your local version of this reminder will include the search based on the local ancillary Lab package results, it is possible that 5 years worth of patient lab history are not on record.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months
Sex Specific: FEMALE
Ignore on N/A: S

Frequency for Age Range: 5 years for ages 45 to 65
Match Text: Check total cholesterol every 5 years for women ages 45-65.
No Match Text: Cholesterol not indicated for women under 45, or over 65.

Targeted Result Findings for LABORATORY TEST reminder type: LABORATORY TEST

Target Result Match Text:
No Match Text LAB: Date of last cholesterol test unknown.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-CHOLESTEROL (TF(24))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

2 Health Factor Findings:

Health Factor: INACTIVATE CHOLESTEROL SCREEN (HF(48))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE CHOLESTEROL SCREEN (HF(46))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(48))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE CHOLESTEROL SCREEN))

VA-*CHOLESTEROL SCREEN (M)

Reminder Type: LABORATORY TEST

Print Name: Cholesterol Screen (Male)

Related VA-* Reminder: VA-*CHOLESTEROL SCREEN (M)

Reminder Description:

This Cholesterol screen reminder for males is based on the following
"Hyperlipidemia Detection" guidelines specified in the VHA HANDBOOK
1101.8, APPENDIX A.

Target Conditions: Cardiovascular Disease.

Target Group: Males ages 35-65.

Recommendation: Check total cholesterol level within the past
five years.

Goal for FY 2000: 75% of males ages 35-65 Primary Care clinic
patients
have had a blood cholesterol level check within the past five years.

Appendix A-8: Distributed Reminders Definitions, cont d

Technical Description:

As distributed, this reminder is based on CPT codes which represent cholesterol tests the patient has had documented in PCE. These may be CPT codes for cholesterol done by the Laboratory Service, or a historical encounter documented to show when the cholesterol test was last given to the patient.

Copy this reminder to a new reminder for your site. Add the Laboratory Tests that represent a cholesterol level check in the Result Findings multiple.

PLEASE NOTE: Your local version of this reminder will include the search based on the local ancillary Lab package results, it is possible that 5 years worth of patient lab history are not on record.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months
Sex Specific: MALE
Ignore on N/A: S

Frequency for Age Range: 5 years for ages 35 to 65
Match Text: Check total cholesterol every 5 years for men ages 35-65.
No Match Text:

Targeted Result Findings for LABORATORY TEST reminder type:
LABORATORY TEST

Target Result Match Text:
No Match Text LAB: Date of last cholesterol test unknown.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-CHOLESTEROL (TF(24))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE CHOLESTEROL SCREEN (HF(48))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Health Factor: ACTIVATE CHOLESTEROL SCREEN (HF(46))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
 Match Text:
 No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(48))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE CHOLESTEROL SCREEN))

VA-*COLORECTAL CANCER SCREEN (FOBT)

Reminder Type: EXAMINATION

Print Name: Fecal Occult Blood Test

Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (FOBT)

Reminder Description:

Fecal occult blood test due every year for patients ages 50 and older, or 5 years after the last Sigmoidoscopy. The 5 years is a conservative period recommended by a blue ribbon panel publishing their findings in the February 1997 issue of "Gastroenterology" magazine.

This VA-*COLORECTAL CANCER SCREEN - FOBT reminder is based on the "Colorectal Cancer Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Early detection of colon cancer or its predecessors.

Target Group: All persons ages 50 and older.

Recommendation: All persons age 50 and older should receive an annual fecal occult blood test or undergo a sigmoidoscopy examination (periodicity unspecified).

Goals for FY 2000: For persons age 50 and older: 50 percent of those enrolled in primary care clinics have received fecal occult blood testing within the preceding year and 40 percent have received at least one proctosigmoidoscopy examination in their lifetime.

Appendix A-8: Distributed Reminders Definitions, cont d

Technical Description:

This reminder is based on Taxonomy Findings from FOBT, "or" SIG cancer screening, "and" FOBT exam results recorded from a clinic encounter as an EXAM. See the definition for VA-*COLORECTAL CANCER SCREEN (SIG.) also. These two reminders work together for assessing cancer screening.

The FOBT is due annually, unless a SIG is found. The SIG found changes the frequency to due once in a lifetime (99Y) according to the M-2 document, but a more conservative approach is encouraged by the National Center for Health Promotion to use 5 years (5Y). The SIG found changes the frequency to due every 5 years for patients 50 and older (note the rank of 2). After a SIG has been received by the patient, if the clinician determines the FOBT should be given to this patient again annually, the FOBT can be activated again by entering the Health Factor "ACTIVATE FOBT CANCER SCREEN" for the patient (Note the rank of 1).

Check the Taxonomy Findings entries representing Fecal Occult Blood Test and VA-FLEXISIGMOIDOSCOPY. The taxonomies represent coded standard entries in the CPT file and ICD Operation/Procedure file. If one of these taxonomies need modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications. THAN, copy the reminder to a new reminder to add your local sites modifications.

This reminder cannot make use of the Laboratory package data at this time because the Occult Blood results are Microbiology tests that do not reflect the Laboratory Test done, or the related CPT code.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for ages 50 and older
Match Text:
No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM
FOBT(CLINIC)

Target Result Match Text:
No Match Text

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-FOBT (TF(27))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

Taxonomy: VA-FLEXISIGMOIDOSCOPY (TF(15))
Match freq/age: 5 years for ages 50 and older
Rank Frequency: 2
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text: FOBT due 5 years after the last sigmoidoscopy.
No Match Text:

Taxonomy: VA-COLORECTAL CANCER SCREEN (TF(31))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text: Date of last FOBT or SIG, unknown.

2 Health Factor Findings:

Health Factor: INACTIVATE FOBT CANCER SCREEN (HF(49))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE FOBT CANCER SCREEN (HF(50))
Match Freq/Age: 1 year for ages 50 and older
Rank Frequency: 1
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Appendix A-8: Distributed Reminders Definitions, cont d

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(49))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE FOBT CANCER SCREEN))

VA-*COLORECTAL CANCER SCREEN (SIG.)

Reminder Type: EXAMINATION

Print Name: Flexisigmoidoscopy

Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (SIG.)

Reminder Description:

At least one sigmoidoscopy examination in their lifetime for patients age 50 and older, or a fecal occult blood test yearly. This reminder uses 5 years, rather than 99Y for "ONCE" as originally published in the VA Guidelines. The 5 years is a conservative period recommended by a blue ribbon panel publishing their findings in the February 1997 issue of "Gastroenterology" magazine.

This reminder is based on the "Colorectal Cancer Detection" guidelines specified in the VHA HANDBOOK, APPENDIX A.

Target Condition: Early detection of colon cancer or its predecessors.

Target Group: All persons ages 50 and older.

Recommendation: All persons age 50 and older should receive an annual fecal occult blood test or undergo a sigmoidoscopy examination (periodicity unspecified).

Goals for FY 2000: For persons age 50 and older, 50 percent of those enrolled in primary care clinics have received fecal occult blood testing within the preceding year and 40 percent have received at least one proctosigmoidoscopy examination in their lifetime.

Technical Description:

The next time a SIG is due is 1 year from the last FOBT, or 5 years from the last SIG.

The reminder type is EXAM, and the Baseline AGE RANGE and FREQUENCY is 50 and older and 1Y - so that the SIG will be due a year from the last FOBT done in the clinic. The AGE RANGE and FREQUENCY are modified to 50 and older and 5Y if a prior SIG has been received by the patient. The Rank of 2, on the VA-FLEXISIGMOIDOSCOPY taxonomy match fields, will cause a match of a SIG to take precedence over the FOBT findings to establish when the SIG is due again. If the most recent health factor finding, between INACTIVATE and ACTIVATE is INACTIVATE with its rank of 1, the reminder will be "N/A" (not applicable to the patient), and the frequency is 0Y.

Appendix A-8: Distributed Reminders Definitions, cont d

Check the Taxonomy Findings entries representing flexisigmoidoscopy and FOBT procedures. This represents coded standard entries in the CPT file and ICD Operation/Procedure file. If the taxonomies need modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications. Then, copy this reminder to a new reminder for your local sites modifications, and change the Taxonomy Findings to use the new taxonomies.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for ages 50 and older
Match Text: SIG due every 5 years for patients 50 and older, or FOBT annually.
No Match Text: Flexisigmoidoscopy not indicted for patients under 50.

Targeted Result Findings for EXAMINATION reminder type:

EXAM
FOBT(CLINIC)

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-FLEXISIGMOIDOSCOPY (TF(15))
Match freq/age: 5 years for ages 50 and older
Rank Frequency: 2
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

Taxonomy: VA-FOBT (TF(27))
Match freq/age: 1 year for ages 50 and older
Rank Frequency: 3
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

Taxonomy: VA-COLORECTAL CANCER SCREEN (TF(31))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text: Date of last SIG or FOBT unknown.

Appendix A-8: Distributed Reminders Definitions, cont d

2 Health Factor Findings:

Health Factor: INACTIVATE SIGMOIDOSCOPY (HF(51))
Match Freq/Age: 0Y - Not Indicated for ages 50 and older
Rank Frequency: 1
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE SIGMOIDOSCOPY (HF(52))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(51))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE SIGMOIDOSCOPY))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*FITNESS AND EXERCISE SCREEN

Reminder Type: EDUCATION

Print Name: Exercise Education

Related VA-* Reminder: VA-*FITNESS AND EXERCISE SCREEN

Reminder Description:

Exercise education given yearly to all patients.

This VA-*FITNESS AND EXERCISE SCREEN reminder is based on the following "Physical Activity Counseling" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cardiovascular disease, physical function.

Target Group: General outpatient population.

Recommendation: Primary care clinicians should encourage all individuals to engage in a program of physical activity tailored to their health status and personal life style.

Goals for FY 2000: 50% of primary care providers routinely counsel their patients regarding frequency, duration, type and intensity of physical activity. 30% of Veterans engage in regular moderate physical activity for at least 30 minutes three times a week. 20% of Veterans engage in vigorous activity that promotes cardiorespiratory fitness.

Technical Description:

To modify this reminder from its distributed definition, copy the reminder to a new reminder and then make the modifications necessary to define your sites guideline.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text:
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-EXERCISE SCREENING

Target Result Match Text:
No Match Text

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-EXERCISE COUNSELING (TF(32))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE EXERCISE SCREEN (HF(53))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE EXERCISE SCREEN (HF(54))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(53))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE EXERCISE SCREEN))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*HYPERTENSION SCREEN

Reminder Type: MEASUREMENT
Print Name: Hypertension Detection
Related VA-* Reminder: VA-*HYPERTENSION SCREEN

Reminder Description:
BP due every two years to detect hypertension.

This VA-*HYPERTENSION SCREEN reminder is defined based on the following "Hypertension Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Hypertension, Cardiovascular Disease

Target Group: General outpatient population

Recommendation: Check blood pressure at least once every two years for all Primary Care clinic patients.

Goal for FY2000: 90% of Primary Care clinic patients have had their blood pressure checked in the past two years.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received a blood pressure check. As distributed, the reminder checks for an ICD Diagnosis or a CPT procedure code representing "Hypertension Screen", or a record of a blood pressure (BP) in the Vitals/Measurements package.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-BLOOD PRESSURE CHECK" reminder. This reminder includes an alteration of the blood pressure reminder guidelines when the patient has a history of hypertension on file.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 2 years for all ages
Match Text:
No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Targeted Result Findings for MEASUREMENT reminder type:

GMRV VITAL TYPE
BLOOD PRESSURE

Target Result Match Text:

No Match Text Vitals: Date of last Vitals BP Measurement
unknown.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

 Taxonomy: VA-HYPERTENSION SCREEN (TF(23))
 Match freq/age: 2 years for all ages
 Rank Frequency:
Use in Date Due Calc: YES
 Use in Apply Logic:
 Match Text:
 No Match Text: Date of last ICD or CPT coded hypertension
 screen unknown.

 General Match Text:
General No Match Text:

2 Health Factor Findings:

 General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*INFLUENZA IMMUNIZATION

Reminder Type: IMMUNIZATION

Print Name: Influenza Immunization

Related VA-* Reminder: VA-*INFLUENZA IMMUNIZATION

Reminder Description:

The "VA-*Influenza Immunization" reminder is based on the following "Influenza Immunization" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Influenza and its complications.

Target Group: Outpatients age 65 and older.

Recommendation: Influenza vaccine should be administered annually in the late fall to all persons age 65 and older.

Goal for FY 2000: 60% of those persons over age 65 have received influenza vaccine in the past year.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received an influenza immunization. As distributed, the reminder checks for an "Influenza" immunization in the V Immunization file or its CPT code equivalent in the V CPT file.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-INFLUENZA VACCINE" reminder. This reminder includes an alteration of the influenza reminder guidelines when the patient has a diagnosis which could cause the patient to be at a high risk for flu or pneumonia.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 1 year for ages 65 and older

Match Text: Influenza vaccine due yearly in patients ages 65 and older.

No Match Text: Influenza vaccine not indicated for patients under 65.

Appendix A-8: Distributed Reminders Definitions, cont d

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION
INFLUENZA

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-INFLUENZA IMMUNIZATION (TF(33))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE INFLUENZA IMMUNIZATION (HF(55))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE INFLUENZA IMMUNIZATION (HF(56))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(55))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE INFLUENZA IMMUNIZATION))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*PNEUMOCOCCAL VACCINE

Reminder Type: IMMUNIZATION
Print Name: Pneumovax
Related VA-* Reminder: VA-*PNEUMOCOCCAL VACCINE

Reminder Description:

This "VA-*PNEUMOCOCCAL VACCINE" reminder is defined based on the following "Pneumococcal Vaccine" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Pneumococcal pneumonia.
Target Group: Outpatients age 65 and older.

Recommendation: All persons age 65 and older should receive one vaccination with pneumococcal vaccine in their lifetime.

Goal for FY 2000: 80% of individuals 65 and older have received pneumococcal vaccine.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the pneumococcal vaccine has been given to the patient.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-PNEUMOVAX" reminder, which includes a check for diagnoses documented for the patient that would indicate the pneumococcal vaccine should be given to the patient regardless of the patients age.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 99Y - Once for ages 65 and older
Match Text: Pneumovax due once for patients 65 and over.
No Match Text:

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION
PNEUMOCOCCAL

Target Result Match Text:
No Match Text

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-PNEUMOCOCCAL VACCINE (TF(25))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE PNEUMOCOCCAL VACCINE (HF(57))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE PNEUMOCOCCAL VACCINE (HF(58))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(57))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE PNEUMOCOCCAL VACCINE))

VA-*PROBLEM DRINKING SCREEN

Reminder Type: EDUCATION
Print Name: Problem Drinking Screen
Related VA-* Reminder: VA-*PROBLEM DRINKING SCREEN

Appendix A-8: Distributed Reminders Definitions, cont d

Reminder Description:

The "VA-*Problem Drinking Screening" education reminder is based on the following "Problem Drinking and Alcohol Moderation Counseling" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Problem drinking, alcohol dependence, medical complications of alcohol use, accidents and violence.

Target Group: Outpatient experiencing medical or social problems attributable to alcohol use.

Recommendation: Primary care clinicians should routinely ask their patients to describe their use of alcohol. High risk patients (3 or more drinks daily) should be referred for counseling.

Goals for FY 2000: 100% of VHA facilities have an alcohol treatment program or access to one. 75% of primary care providers should screen for alcohol problems yearly and provide counseling and referral as needed.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has been screened for problem drinking. The "VA-ALCOHOL ABUSE SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-ALCOHOL ABUSE EDUCATION" reminder. This reminder includes a check for a diagnoses documented for the patient that would indicate the patient has a problem related to alcohol abuse. It also references all of the alcohol abuse education topics that are distributed by PCE, which could satisfy the reminder.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Screen for alcohol problems yearly for all patients.

No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-ALCOHOL ABUSE SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-ALCOHOLISM SCREENING (TF(34))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE PROBLEM DRINKING SCREEN (HF(59))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE PROBLEM DRINKING SCREEN (HF(60))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(59))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE PROBLEM DRINKING SCREEN))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*SEATBELT AND ACCIDENT SCREEN

Reminder Type: EDUCATION

Print Name: Seatbelt and Accident Screen

Related VA-* Reminder: VA-*SEATBELT AND ACCIDENT SCREEN

Reminder Description:

Seatbelt and accident education given yearly to all patients.

This "VA-*SEATBELT AND ACCIDENT SCREEN" reminder is based on the "Seatbelt Use and Accident Avoidance Counseling" guideline specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Motor vehicle associated injuries.

Target Group: General Outpatient population.

Recommendation: All patients should be urged to use seatbelts in automobiles, wear helmets when riding bicycles or motorcycles, and to refrain from driving after drinking.

Goal for FY 2000: 85% of Veterans report regular use of seatbelts in automobiles. 80% of motorcyclists and 50% of bicyclists report use of helmets. 50% of primary care providers routinely provide age-appropriate counseling on safety precautions to prevent unintentional injury.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has had seatbelt and accident screening. The "VA-SEAT BELT USE SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder, represented in the "VA-SEATBELT EDUCATION" reminder. This reminder includes a check for seatbelt use education given to the patient, in addition to the screening.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Seatbelt education due yearly for all patients.

No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-SEAT BELT USE SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-SAFETY COUNSELING (TF(35))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE SEATBELT SCREEN (HF(61))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE SEATBELT SCREEN (HF(62))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(61))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE SEATBELT SCREEN))

Appendix A-8: Distributed Reminders Definitions, cont d

PCE REMINDER/MAINTENANCE ITEM LIST

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VA-*TETANUS DIPHTHERIA IMMUNIZATION

Reminder Type: IMMUNIZATION

Print Name: Tetanus Diphtheria (TD-Adult)

Related VA-* Reminder: VA-*TETANUS DIPHTHERIA IMMUNIZATION

Reminder Description:

TD booster given to all adult patients every ten years.

This reminder is based on "Tetanus and Diphtheria Immunization" guidelines specified in VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Infection with tetanus and diphtheria.

Target Group: General outpatient population.

Recommendation: A tetanus and diphtheria (TD) toxoid booster should be administered every ten years throughout adult life. This is commonly offered at each half decade (e.g. ages 45,55,65).

Goal for FY 2000: 50% of individuals have received a tetanus immunization booster in the past ten years.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has been screened for tetanus diphtheria immunization. The "TETANUS DIPHTHERIA (TD-ADULT)" and "TETANUS TOXOID" immunizations or their CPT equivalent are the result finding that will satisfy this reminder.

The Ambulatory Care EP endorses this reminder as it is defined.

If any modifications to the reminder definition are needed, copy the reminder to a new reminder for your site's use, and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 6 months

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 10 years for ages 18 and older

Match Text: TD booster due every ten years throughout adult life.

No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION

TETANUS DIPHTHERIA (TD-ADULT)

TETANUS TOXOID

Target Result Match Text:

No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-TETANUS DIPHTHERIA (TF(29))

Match freq/age:

Rank Frequency:

Use in Date Due Calc: YES

Use in Apply Logic:

Match Text:

No Match Text:

General Match Text:

General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE TD IMMUNIZATION (HF(63))

Match Freq/Age: 0Y - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND NOT

Match Text:

No Match Text:

Health Factor: ACTIVATE TD IMMUNIZATION (HF(64))

Match Freq/Age:

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic:

Match Text:

No Match Text:

General Match Text:

General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:

(SEX)&(AGE)&'(HF(63))

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE TD IMMUNIZATION))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*TOBACCO USE SCREEN

Reminder Type: EDUCATION

Print Name: Tobacco Use Screen

Related VA-* Reminder: VA-*TOBACCO USE SCREEN

Reminder Description:

This reminder is based on "Tobacco Use Counseling" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cancer, pulmonary and cardiovascular disease.

Target Group: Outpatients who use tobacco.

Recommendation: Tobacco use cessation counseling should be offered annually to all who use tobacco on a regular basis.

Goals for FY 2000: 100% of VHA facilities have an intensive smoking cessation program (or access to one) which includes appropriate pharmacological treatment. 75% of primary care providers routinely advise cessation and provide assistance and follow-up for all their patients who use tobacco. Reduce cigarette smoking to a prevalence of no more than 15% among people age 20 and over.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received a tobacco use screen. The "VA-TOBACCO USE SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-TOBACCO EDUCATION" reminder. This reminder includes a check for smoking cessation education, in addition to the screening. It also includes target conditions for patients who have tobacco related diagnoses or health factors on file.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Tobacco use screen due yearly for all ages.

No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-TOBACCO USE SCREENING

Target Result Match Text:

No Match Text: No history of tobacco use screen on file.
Please evaluate tobacco use and educate if
currently in use.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

General Match Text:

General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE TOBACCO USE SCREEN (HF(65))

Match Freq/Age: 0Y - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND NOT

Match Text:

No Match Text:

Health Factor: ACTIVATE TOBACCO USE SCREEN (HF(66))

Match Freq/Age:

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic:

Match Text:

No Match Text:

General Match Text:

General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:

(SEX)&(AGE)&'(HF(65))

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE TOBACCO USE SCREEN))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-*WEIGHT AND NUTRITION SCREEN

Reminder Type: EDUCATION
Print Name: Weight and Nutrition Screen
Related VA-* Reminder: VA-*WEIGHT AND NUTRITION SCREEN

Reminder Description:

This VA-*WEIGHT AND NUTRITION SCREEN reminder is based on the following "Weight Control and Nutrition Counseling" guidelines defined in the VHA HANDBOOK 1101.8, APPENDIX A.

Target condition: Obesity and associated conditions.

Target Group: General outpatient population.

Recommendation: Primary care clinicians should provide their patients with periodic counseling or referral for counseling regarding dietary intake of calories, fat (especially saturated fat), cholesterol, and fiber. A nutrition counseling service should be available at each VHA facility.

Goals for FY 2000: Reduce dietary fat intake to an average of 30 of calories and saturated fats to less than 10%. Increase complex carbohydrate and fiber-containing foods in the diet to 5 or more daily servings for vegetables and fruits and 6 or more daily servings for grain products. Reduce overweight to a prevalence of no more than 20% among people age 20 and older. Women should be encouraged to consume 1000 mg/day of calcium until menopause and 1500 mg/day thereafter. 100% of VHA facilities should have formal nutrition counseling available for outpatients.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received a weight and nutrition screen. The "VA-NUTRITION/WEIGHT SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-NUTRITION/OBESITY EDUCATION" reminder. This reminder includes a check for nutrition education, in addition to the screening. It also includes target conditions for patients who have nutrition or obesity related diagnoses or health factors on file.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text: Weight and Nutrition screen due yearly for all patients.
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-NUTRITION/WEIGHT SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-WEIGHT AND NUTRITION SCREEN (TF(36))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE WEIGHT/NUTRITION SCREEN (HF(67))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE WEIGHT/NUTRITION SCREEN (HF(68))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Appendix A-8: Distributed Reminders Definitions, cont d

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(67))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE WEIGHT/NUTRITION SCREEN))

VA-ADVANCED DIRECTIVES EDUCATION

Reminder Type: EDUCATION

Print Name: Advanced Directives Education

Related VA-* Reminder:

Reminder Description:
Advanced directives information given to all patients once.

Technical Description:
This reminder is distributed with the PCE package. The source of this reminder definition is the Ambulatory Care Expert Panel. It is based on feedback from facilities wanting to track Advanced Directive Education.

This reminder is an education type reminder. It relies on an active education topic entry representing the Advanced Directives education in the Education Topics file.

This reminder will be considered "DUE NOW" if there is no patient education entry for advanced directive education in the "V Patient Ed." file. The V Patient Ed. File summarizes the patient education provided by clinicians at an encounter/visit.

By recording the education topic given at an encounter via a scanned encounter form (or other interface to PCE), the reminder will be considered "not indicated". Historical patient education for advanced directives can be recorded in the PCE User Interface to make the reminder not indicated.

The Clinical Maintenance component in the Health Summary will display the latest date on record where advanced directive education/screening was provided to the patient.

Initial installation comment:

The PCE package is distributed with a preliminary set of education topics, which includes the VA-ADVANCED DIRECTIVES, and VA-ADVANCED DIRECTIVES SCREENING entries.

The VA-ADVANCED DIRECTIVES education is defined as this reminders education topic, in lieu of additional/other Advanced Directive education topics you might want to create and activate at your site.

Appendix A-8: Distributed Reminders Definitions, cont d

The VA-ADVANCED DIRECTIVES SCREENING education is defined to help track the fact that an inquiry or screening was made to determine if the patient needed Advanced Directive education/counseling.

If this reminder is used at your site, you may want to add at a minimum, these two education topics on an encounter form for those clinics who would be addressing this reminder.

Target Groups - Baseline:

Do In Advance Time Frame: 0M - Wait until actually DUE
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 99Y - Once for all ages
Match Text:
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-ADVANCED DIRECTIVES
VA-ADVANCED DIRECTIVES SCREENI

Target Result Match Text:
No Match Text No record of Advanced Directives
education/screening on file.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

VA-ALCOHOL ABUSE EDUCATION

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-ALCOHOL ABUSE (TF(17))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Taxonomy: VA-ALCOHOLISM SCREENING (TF(34))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: HISTORY OF AN ALCOHOL PROBLEM (HF(13))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: DRIVING UNDER THE INFLUENCE (HF(14))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: FAMILY HX OF ALCOHOL ABUSE (HF(15))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: PREV. SCREEN ETOH PROBLEM (HF(16))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Health Factor: HEAVY DRINKER (3 OR MORE/DAY) (HF(17))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: DRINKING ALONE (HF(18))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: BINGE DRINKING (HF(19))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

VA-BLOOD PRESSURE CHECK

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HYPERTENSION (TF(1))
Match freq/age: 1 day for all ages
Rank Frequency: 1
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text: History of hypertension on record. BP due every
visit in patients with HTN.
No Match Text: No HX of HTN on file. No HX of hypertension
presumed.

Taxonomy: VA-HYPERTENSION SCREEN (TF(23))
Match freq/age: 2 years for all ages
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

Appendix A-8: Distributed Reminders Definitions, cont d

VA-BREAST EXAM

Reminder Type: EXAMINATION

Print Name: Breast Exam

Related VA-* Reminder:

Reminder Description:

A breast exam is due yearly for females 40 and older. If the female has a history of breast cancer, check for ongoing follow-up yearly.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

Review the taxonomy findings definition being used to represent breast cancer. Use the List Taxonomy Items option to see the coded values defined for the taxonomy. If a taxonomy needs modifications, copy the taxonomy and make appropriate modifications to the new taxonomy item.

Check the Exam file entries referenced and make modifications as needed for local representation of exams.

If any changes to the reminder definition are needed, copy this reminder to a new reminder for your sites use, and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: 0M - Wait until actually DUE
Sex Specific: FEMALE
Ignore on N/A:

Frequency for Age Range: 1 year for ages 40 and older
Match Text:
No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM
BREAST EXAM

Target Result Match Text:

No Match Text Date of last breast exam unknown. Please document last exam or perform today.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-BREAST TUMOR (TF(18))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

Appendix A-8: Distributed Reminders Definitions, cont d

VA-BREAST SELF EXAM EDUCATION

Reminder Type: EDUCATION

Print Name: Breast Self Exam Education

Related VA-* Reminder:

Reminder Description:

The breast self exam education is due yearly for females. If the female has a history of breast cancer, check for ongoing follow-up yearly. If the female has a history of a mastectomy, check for appropriateness of breast self exam education.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:

The findings for breast self exam are based on the definition of an education topic in the EDUCATION TOPICS file. Check the result findings file for breast self exam entry which is distributed with this reminder. If new education topics need to be added, use the PCE Table Maintenance options, and then copy this reminder, and make the modifications to the result findings to reference the education topics defined for your site.

Check the taxonomy findings definitions for breast cancer, breast tumor, and mastectomy. Copy the taxonomies and make modifications if needed.

If any changes are needed in the findings definitions, copy this reminder to a site defined reminder item and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: 0M - Wait until actually DUE
Sex Specific: FEMALE
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text:
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-SELF BREAST EXAM

Target Result Match Text:
No Match Text Date of last breast self exam education not known.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-BREAST TUMOR (TF(18))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient known to have HX of breast tumor or breast cancer. Please verify appropriate TX and F/U is ongoing yearly.
No Match Text: No HX breast cancer presumed.

Taxonomy: VA-MASTECTOMY (TF(19))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: This patient has had a mastectomy. If appropriate for this patient, please provide Breast Self Exam Education.
No Match Text:

General Match Text: Patient has a HX of breast cancer or other breast disease that might complicate breast self exam.

General No Match Text:

2 Health Factor Findings:

Health Factor: HX BREAST CANCER (HF(20))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: FAMILY HX BREAST CANCER (HF(22))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: PREV. BREAST CANCER SCREENING (HF(23))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

VA-DIABETIC EYE EXAM

Reminder Type: EXAMINATION

Print Name: Diabetic Eye Exam

Related VA-* Reminder:

Reminder Description:
Patients with the VA-DIABETES taxonomy should have a diabetic eye exam done yearly.

Technical Description:
This reminder is based on the Diabetic Eye Exam reminder from the New York VAMC which was designed to meet the guidelines defined by the PACT panel. Additional input came from the Saginaw VAMC.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 0Y - Not Indicated for all ages
Match Text:
No Match Text:

Targeted Result Findings for EXAMINATION reminder type:
EXAM

DIABETIC EYE EXAM

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-DIABETES (TF(28))
Match freq/age: 1 year for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND
Match Text: Diabetic eye exam required annually for all diabetic patients.
No Match Text: No history of diabetes on file.

Appendix A-8: Distributed Reminders Definitions, cont d

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&(TF(28))

Expanded Apply Logic:
(SEX)&(AGE)&(TF(VA-DIABETES))

VA-DIABETIC FOOT CARE ED.

Reminder Type: EDUCATION

Print Name: Diabetic Foot Care Education

Related VA-* Reminder:

Reminder Description:
Patients with the VA-DIABETES taxonomy should have a diabetic foot care education done yearly.

Technical Description:
This reminder is based on the Diabetic care reminders from the New York VAMC which were designed to meet the guidelines defined by the PACT panel. Additional input came from the Saginaw VAMC.

Target Groups - Baseline:
Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 0Y - Not Indicated for all ages
Match Text:
No Match Text:

Targeted Result Findings for EDUCATION reminder type:
EDUCATION TOPICS

Target Result Match Text:
No Match Text

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-DIABETES (TF(28))
Match freq/age: 1 year for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND
Match Text: Diabetic foot care education required annually
for all diabetic patients.
No Match Text: No history of diabetes on file.

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&(TF(28))

Expanded Apply Logic:
(SEX)&(AGE)&(TF(VA-DIABETES))

VA-DIABETIC FOOT EXAM

Reminder Type: EXAMINATION

Print Name: Diabetic Foot Exam

Related VA-* Reminder:

Reminder Description:

Patients with the VA-DIABETES taxonomy should have a complete foot exam done yearly.

Technical Description:

This reminder is based on the Diabetic Foot Exam reminder from the New York VAMC which was designed to meet the guidelines defined by the PACT panel. Additional input came from the Saginaw VAMC.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 0Y - Not Indicated for all ages
Match Text:
No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM
DIABETIC FOOT EXAM, COMPLETE

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-DIABETES (TF(28))
Match freq/age: 1 year for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND
Match Text: Complete foot exam required annually for all
diabetic patients.
No Match Text: No history of diabetes on file.

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&(TF(28))

Expanded Apply Logic:
(SEX)&(AGE)&(TF(VA-DIABETES))

Appendix A-8: Distributed Reminders Definitions, cont d

A-DIGITAL RECTAL (PROSTATE) EXAM

Reminder Type: EXAMINATION
Print Name: Digital Rectal (Prostate) Exam
Related VA-* Reminder:

Reminder Description:
Digital rectal (Prostate) exam should be given yearly to male patients
ages 40-75 with no DX of prostate cancer.

This reminder is based on guidelines defined by the Ambulatory Care
Expert Panel.

Technical Description:
Check the Taxonomy Findings entries representing HX of Prostate Cancer.
If this taxonomy needs modification, copy the taxonomy to a new taxonomy
for your site, and make the appropriate modifications.

Check the Result Findings EXAM entry representing Digital rectal exam.
Make modifications to the EXAM file via the PCE Table Maintenance option.

If any modifications were required based on the checks above, then copy
the reminder definition to a new reminder, and make the appropriate
modifications to the reminder to reflect your site's guidelines.

Target Groups - Baseline:
Do In Advance Time Frame: 0M - Wait until actually DUE
Sex Specific: MALE
Ignore on N/A:

Frequency for Age Range: 1 year for ages 40 to 75
Match Text:
No Match Text:

Targeted Result Findings for EXAMINATION reminder type:
EXAM
RECTAL EXAM

Target Result Match Text:
No Match Text Date of last rectal exam not on file.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-PROSTATE CA (TF(8))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient known to have HX of prostate cancer.
Please verify appropriate TX and F/U is ongoing.
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

VA-EXERCISE EDUCATION

Reminder Type: EDUCATION
Print Name: Exercise Education
Related VA-* Reminder: VA-*FITNESS AND EXERCISE SCREEN

Reminder Description:

Exercise education given yearly to all patients.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel. It also supports the following "Fitness and Exercise Counseling" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Appendix A-8: Distributed Reminders Definitions, cont d

Technical Description:

Findings to satisfy this reminder are defined in Education Topics and via coded values defined in the VA-EXERCISE COUNSELING taxonomy.

This reminder can be inactivated for a patient by using the INACTIVATE EXERCISE SCREEN health factor.

Check the Education Topics defined in the Results Findings multiple. Does your site need to identify new education topics in the Education Topics file to represent Exercise Education?

To update the education topics, use the PCE Table Maintenance options.

To modify this reminder from its distributed definition, copy the reminder to a new reminder and then make the modifications necessary to define your sites guideline.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text: Exercise education due yearly for all ages.
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-EXERCISE
VA-EXERCISE SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-EXERCISE COUNSELING (TF(32))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

2 Health Factor Findings:

Health Factor: INACTIVATE EXERCISE SCREEN (HF(53))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE EXERCISE SCREEN (HF(54))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(53))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE EXERCISE SCREEN))

VA-FECAL OCCULT BLOOD TEST

Reminder Type: EXAMINATION
Print Name: Fecal Occult Blood Test
Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (FOBT)

Reminder Description:

Fecal occult blood test due every year for patients ages 50 and older with no DX of colorectal cancer. This reminder conservatively recommends that if a sigmoidoscopy was received, the next fecal occult blood test would be due a year later.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel. It also satisfies the "Colorectal Cancer Screen - FOBT" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Appendix A-8: Distributed Reminders Definitions, cont d

Technical Description:

This reminder depends on Exam findings where an FOBT is completed in the clinic, or on Taxonomy Findings representing FOBT.

Check the Taxonomy Findings entries representing HX of Colorectal Cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Check the Taxonomy Findings entries representing Fecal Occult Blood Test. This represents coded standard entries in the CPT file and ICD Operation/Procedure file. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local site's modifications.

NOTE: The Laboratory data is not available use in the reminder. When the lab package begins passing CPT codes for fecal occult blood tests to PCE, this reminder is ready to make use of the information.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 1 year for ages 50 and older

Match Text:

No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM

FOBT(CLINIC)

Target Result Match Text:

No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-COLORECTAL CA (TF(4))

Match freq/age: 0Y - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND NOT

Match Text: Patient known to have HX of colorectal cancer.

Please verify appropriate TX & F/U is ongoing.

No Match Text: No HX of colorectal cancer on file - presumed no HX.

Appendix A-8: Distributed Reminders Definitions, cont d

Taxonomy: VA-FOBT (TF(27))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

Taxonomy: VA-FLEXISIGMOIDOSCOPY (TF(15))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE FOBT CANCER SCREEN (HF(49))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE FOBT CANCER SCREEN (HF(50))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(49))&'(TF(4))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE FOBT CANCER SCREEN))&'(TF(VA-COLORECTAL CA))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-FLEXISIGMOIDOSCOPY

Reminder Type: PROCEDURE

Print Name: Flexisigmoidoscopy

Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (SIG.)

Reminder Description:

Flexisigmoidoscopy every 5 years for patients age 50 and older, with no DX of colorectal cancer.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel and satisfies the sigmoidoscopy requirements for the "Colorectal Cancer Detection" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Check the Taxonomy Findings entries representing HX of Colorectal Cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Check the Taxonomy Findings entries representing flexisigimoidoscopy procedures. This represents coded standard entries in the CPT file and ICD Operation/Procedure file. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 5 years for ages 50 and older
Match Text:
No Match Text: Flexisigmoidoscopy not indicted for patients under 50.

Targeted Result Findings for PROCEDURE reminder type:

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-FLEXISIGMOIDOSCOPY (TF(15))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text: No flexisigmoidoscopy "CPT" or "ICD O/P" on file.

Appendix A-8: Distributed Reminders Definitions, cont d

Taxonomy: VA-COLORECTAL CA (TF(4))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient has HX of colorectal cancer. More
detailed F/U indicated.
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE SIGMOIDOSCOPY (HF(51))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE SIGMOIDOSCOPY (HF(52))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(51))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE SIGMOIDOSCOPY))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-INFLUENZA VACCINE

Reminder Type: IMMUNIZATION

Print Name: Influenza Vaccine

Related VA-* Reminder: VA-*INFLUENZA IMMUNIZATION

Reminder Description:

Influenza vaccine given yearly for patients ages 65 and older, and for patients of any age with a history of any of the following: asthma, COPD, DM, ASVCD, CHG, chronic bronchitis, HIV positive or AIDS, renal transplant, or cancer chemotherapy.

This reminder is defined based on guidelines from the Ambulatory Care Expert Panel. It also supports the "Influenza Immunization" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Check the Taxonomy Findings representing High Risk for Flu/Pneumonia. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 1 year for ages 65 and older

Match Text: Influenza vaccine due yearly in patients ages 65 and older.

No Match Text:

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION

INFLUENZA

Target Result Match Text:

No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HIGH RISK FOR FLU/PNEUMONIA (TF(9))

Match freq/age: 1 year for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic:

Match Text: Flu shot due yearly in patients any age that have a high risk for flu or pneumonia.

No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Taxonomy: VA-INFLUENZA IMMUNIZATION (TF(33))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE INFLUENZA IMMUNIZATION (HF(55))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE INFLUENZA IMMUNIZATION (HF(56))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(55))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE INFLUENZA IMMUNIZATION))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-MAMMOGRAM

Reminder Type: RADIOLOGY PROCEDURE

Print Name: Mammogram

Related VA-* Reminder: VA-*BREAST CANCER SCREEN

Reminder Description:

Mammogram should be given every 2 years to female patients, ages 50-69 with no DX of breast cancer, and yearly for women with a history of breast cancer or breast tumors, ages 35 - 69.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel. The expert panel recommends a study for patients with "high risk for breast cancer" to occur every 1 to 2 years. A conservative 1 year is defined in this reminder definition.

This reminder also supports the "Breast Cancer Detection" reminder defined in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

The findings for mammogram are based on defining the CPT codes representing mammograms in a taxonomy for Mammograms. The CPT codes are used to search the Radiology procedures in the Radiology package, as well as checks for existence of a CPT code in the V CPT file.

Check the taxonomy findings definition for breast cancer and breast tumor. Copy the taxonomies and make modifications if needed.

If any changes were needed in the findings, copy this reminder to a site defined reminder item and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific: FEMALE
Ignore on N/A: S

Frequency for Age Range: 2 years for ages 50 to 69
Match Text: Women ages 50-69 should receive a mammogram every two years.
No Match Text:

Targeted Result Findings for RADIOLOGY PROCEDURE reminder type:

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-MAMMOGRAM/SCREEN (TF(16))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

Taxonomy: VA-BREAST TUMOR (TF(18))
Match freq/age: 1 year for ages 35 to 69
Rank Frequency:
Use in Date Due Calc: NO
Use in Apply Logic:
Match Text: History of breast cancer or breast tumor on
file. Due yearly for patients ages 35-69.
No Match Text:
General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE BREAST CANCER SCREEN (HF(42))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE BREAST CANCER SCREEN (HF(43))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(42))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE BREAST CANCER SCREEN))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-NUTRITION/OBESITY EDUCATION

Reminder Type: EDUCATION
Print Name: Nutrition/Obesity Education
Related VA-* Reminder: VA-*WEIGHT AND NUTRITION SCREEN

Reminder Description:

Given yearly to patients of any age who have a history of a nutrition disorder or a history of obesity. Also given to patients who are considered obese based on a Body Mass Index greater than 27, which represents weight greater than 120% of Ideal Body Weight.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel. This reminder also supports the "Weight Control and Nutrition Counseling" guidelines defined in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

The most recent taxonomy finding within a taxonomy is presented for clinical information.

The most recent health factor finding within a health factor category is presented for clinical information. If all 6 of the health factors that are from the NUTRITION health factor category were found for the patient, only the most recent health factor within the "NUTRITION" health factor category would be used by the reminder. Since the activate and inactivate health factors are defined under the "REMINDER CATEGORY" they are evaluated and the most recent of these two factors would also be used by the reminder.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text: Weight and Nutrition education due yearly for all ages.
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-NUTRITION/OBESITY
VA-NUTRITION/WEIGHT SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

Appendix A-8: Distributed Reminders Definitions, cont d

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-OBESITY (TF(20))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient has a history of obesity.
No Match Text: No HX of obesity on file.

Taxonomy: VA-NUTRITION (TF(21))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient has a history of a nutrition disorder.
No Match Text: No HX of nutrition disorder on file.

Taxonomy: VA-WEIGHT AND NUTRITION SCREEN (TF(36))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: HX NUTRITIONAL DISORDER (HF(25))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: PREV. SCREEN NUTR. DISORDER (HF(26))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: IRREGULAR MEALS (HF(27))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Health Factor: FREQUENT DIETING (HF(28))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: FOOD CRAVINGS (HF(29))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: CURRENTLY PREGNANT (HF(30))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: INACTIVATE WEIGHT/NUTRITION SCREEN (HF(67))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE WEIGHT/NUTRITION SCREEN (HF(68))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Short Description: Calculate BMI>27
Routine: OBESE;PXRMOBES
Match Freq/Age:
Match Text:
No Match Text:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(67))

Appendix A-8: Distributed Reminders Definitions, cont d

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE WEIGHT/NUTRITION SCREEN))

VA-PAP SMEAR

Reminder Type: PROCEDURE

Print Name: Pap Smear

Related VA-* Reminder: VA-*CERVICAL CANCER SCREEN

Reminder Description:

Pap smear/pelvic exam every three years for female patients, age 65 and under, with no DX of cervical cancer or abnormal pap smear and no previous abnormal pap smear lab test.

If patient has had hysterectomy for benign disease, no pap smear is indicated.

This reminder is based on the Ambulatory Care EP and supports the "Cervical Cancer Screen" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Check the Taxonomy Findings representing history of hysterectomy for benign disease, and history of cervical cancer or abnormal PAP. If these taxonomies need modifications, copy each to a new taxonomy for your local site, and make the appropriate modifications.

Define Health Factors that may represent Sexual Activity. To add new Health Factors use the PCE Table Maintenance option.

Copy the reminder to a new reminder for your local site modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Wait until actually DUE
Sex Specific: FEMALE
Ignore on N/A: S

Frequency for Age Range: 3 years for ages 65 and younger
Match Text: Pap smear/pelvic exam due every 3 years for women ages 65 and younger.
No Match Text: Pap smear screen not indicated for women over 65.

Targeted Result Findings for PROCEDURE reminder type:

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HYSTERECTOMY (TF(6))
Match freq/age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text: Pap not indicated in women with HX hysterectomy
for benign disease.
No Match Text: No HX of hysterectomy - presumed no such HX.

Taxonomy: VA-CERVICAL CA/ABNORMAL PAP (TF(5))
Match freq/age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text: Patient has HX of cervical cancer. Please
verify appropriate TX & F/U is ongoing.
No Match Text: No HX of cervical cancer on file - no HX
cervical cancer presumed.

Taxonomy: VA-CERVICAL CANCER SCREEN (TF(30))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text: Date of last cervical cancer screen taxonomy
unknown.

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE CERVIX CANCER SCREEN (HF(44))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE CERVIX CANCER SCREEN (HF(47))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Appendix A-8: Distributed Reminders Definitions, cont d

Default APPLY LOGIC to see if the Reminder should apply to a patient:

```
(SEX)&(AGE)&'(HF(44))&'(TF(6))&'(TF(5))
```

Expanded Apply Logic:

```
(SEX)&(AGE)&'(HF(INACTIVATE CERVIX CANCER  
SCREEN))&'(TF(VA-HYSTERECTOMY))&' (TF(VA-CERVICAL CA/ABNORMAL PAP))
```

VA-PNEUMOVAX

Reminder Type: IMMUNIZATION

Print Name: Pneumovax

Related VA-* Reminder: VA-*PNEUMOCOCCAL VACCINE

Reminder Description:

Pneumovax given once to patients 65 and over, and to patients of any age with a history of any of the following diagnoses: asthma, COPD, DM, ASCVD, CHG, chronic bronchitis, HIV positive or AIDS, renal transplant, or cancer chemotherapy.

This reminder is defined based on guidelines from the Ambulatory Care Expert Panel. It also supports the "Pneumococcal Vaccine" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

Check the Taxonomy Findings representing High Risk for Flu/Pneumonia. If the taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 99Y - Once for ages 65 and older
Match Text: Pneumovax due once for patients 65 and over.
No Match Text:

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION
PNEUMOCOCCAL

Target Result Match Text:
No Match Text

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HIGH RISK FOR FLU/PNEUMONIA (TF(9))
Match freq/age: 99Y - Once for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Pneumovax due once in high risk patients.
No Match Text: No high risk DX for flu/pneumonia on file.
Presumed low risk.

Taxonomy: VA-PNEUMOCOCCAL VACCINE (TF(25))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE PNEUMOCOCCAL VACCINE (HF(57))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE PNEUMOCOCCAL VACCINE (HF(58))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(57))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE PNEUMOCOCCAL VACCINE))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-PPD

Reminder Type: SKIN TEST

Print Name: PPD

Related VA-* Reminder:

Reminder Description:

PPD given yearly to patients of any age who have a "High risk DX for TB"; such as HIV positive or AIDS, homelessness, or alcohol abuse who do not have a DX of tuberculosis and no prior positive TB skin test.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel.

Technical Description:

Check the Taxonomy Findings representing High Risk for TB. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Define health factors which may represent high risk for TB in the Health Factors file via the PCE Table Maintenance options.

Copy the reminder to a new reminder for your local site modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific:

Ignore on N/A:

Frequency for Age Range: 0Y - Not Indicated for all ages

Match Text:

No Match Text:

Targeted Result Findings for SKIN TEST reminder type:

SKIN TEST

PPD

Target Result Match Text:

No Match Text Last date of PPD not known.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HIGH RISK FOR TB (TF(11))

Match freq/age: 1 year for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND

Match Text: Patient has high risk for TB diagnosis, PPD due yearly.

No Match Text: Patient may be low risk for TB, where PPD may not be indicated.

Appendix A-8: Distributed Reminders Definitions, cont d

Taxonomy: VA-TB/POSITIVE PPD (TF(10))
Match freq/age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text: Patient has HX of TB or positive PPD diagnosis.
No Match Text: No HX of TB or positive PPD diagnosis on file.

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&(TF(11))&'(TF(10))

Expanded Apply Logic:
(SEX)&(AGE)&(TF(VA-HIGH RISK FOR TB))&'(TF(VA-TB/POSITIVE PPD))

VA-PSA

Reminder Type: LABORATORY TEST

Print Name: PSA

Related VA-* Reminder:

Reminder Description:
Prostate specific antigen, PSA, due yearly for men ages 50-75, who do not have a history of prostate cancer.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:
Check the Taxonomy Findings entries representing HX of prostate cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Use the new reminder to update the Result Findings Laboratory Test entry representing PSA tests.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Groups - Baseline:

Do In Advance Time Frame: 0M - Wait until actually DUE
Sex Specific: MALE
Ignore on N/A:

Frequency for Age Range: 1 year for ages 50 to 75
Match Text:
No Match Text:

Targeted Result Findings for LABORATORY TEST reminder type:
LABORATORY TEST

Target Result Match Text:
No Match Text Date of last PSA not on file. Please order
test or document historical encounter activity.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-PROSTATE CA (TF(8))
Match freq/age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient known to have HX of prostate cancer.
Please verify appropriate TX and follow-up is
ongoing.
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)

Expanded Apply Logic:
(SEX)&(AGE)

Appendix A-8: Distributed Reminders Definitions, cont d

VA-SEATBELT EDUCATION

Reminder Type: EDUCATION

Print Name: Seat Belt Education

Related VA-* Reminder: VA-*SEATBELT AND ACCIDENT SCREEN

Reminder Description:

Seat belt education given yearly to all patients.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel and is further supported by the "Seatbelt Use and Accident Avoidance Counseling" guideline specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Target Condition: Motor vehicle associated injuries.

Target Group: General Outpatient population.

Recommendation: All patients should be urged to use seatbelts in automobiles, wear helmets when riding bicycles or motorcycles, and to refrain from driving after drinking.

Goal for FY 2000: 85% of Veterans report regular use of seatbelts in automobiles. 80% of motorcyclists and 50% of bicyclists report use of helmets. 50% of primary care providers routinely provide age-appropriate counseling on safety precautions to prevent unintentional injury.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

The VA-SEAT BELT EDUCATION" reminder is a variation of the "VA-SEAT BELT AND ACCIDENT SCREEN" reminder. The VA-SEAT BELT EDUCATION" reminder is recommended by the Ambulatory Care EP to check for seat belt use education given to the patient, in addition to the screening.

Please review both of these related reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

It may be useful to add Health Factors that indicate whether the patient is still driving, rides motorcycles, or rides bicycles for local site use. This would involve adding new Health Factors to the Health Factor file (#9999999.64) and then adding the Health Factors to a local site definition of the seat belt reminder.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Appendix A-8: Distributed Reminders Definitions, cont d

Frequency for Age Range: 1 year for all ages
Match Text: Seat belt education due yearly for all ages.
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-SEAT BELT USE
VA-SEAT BELT USE SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-SAFETY COUNSELING (TF(35))
Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE SEATBELT SCREEN (HF(61))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

Health Factor: ACTIVATE SEATBELT SCREEN (HF(62))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(61))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE SEATBELT SCREEN))

Appendix A-8: Distributed Reminders Definitions, cont d

VA-TOBACCO EDUCATION

Reminder Type: EDUCATION

Print Name: Tobacco Cessation Education

Related VA-* Reminder: VA-*TOBACCO USE SCREEN

Reminder Description:

Tobacco use cessation education should be offered annually to any patient who has a diagnosis or health factor associated with chronic tobacco use.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel and satisfies the "Smoking and Tobacco Use Counseling" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Modifications to these guidelines for your local site may be reflected in a new reminder definition.

Technical Description:

Check the ICD Diagnosis entries defined in the PCE Taxonomy file for VA-TOBACCO USE. Reflect any changes in a new taxonomy definition.

Check/Modify the health factors defined within the Tobacco category in the Health Factors file. The Health Factors file can be modified using the PCE Table Maintenance options.

If the reminder needs modifications, copy it and modify the new reminder to meet local site guidelines.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text:
No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS
VA-TOBACCO USE SCREENING
VA-SMOKING CESSATION

Target Result Match Text:

No Match Text No history of tobacco education/screen on file.
Please evaluate tobacco use and educate if
currently in use.

Appendix A-8: Distributed Reminders Definitions, cont d

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-TOBACCO USE (TF(22))
Match freq/age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text: Patient has a history of tobacco use.
No Match Text: No history of tobacco use found. Presumed to be former or current smoker. Please indicate via health factor (Lifetime non-smoker, or other health factor) if the tobacco education is not indicated.

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: HISTORY OF SMOKING (HF(31))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text: No history of smoking found.

Health Factor: HX OF SEC. SMOKE INHALATIION (HF(32))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text: Patient has no history of secondary smoke inhalation.

Health Factor: LIFETIME NON-SMOKER (HF(5))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text: Patient is lifetime non-smoker, tobacco education not indicated.
No Match Text:

Health Factor: CURRENT SMOKER (HF(2))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Appendix A-8: Distributed Reminders Definitions, cont d

Health Factor: CURRENT NON-SMOKER (HF(3))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: LIFETIME NON-TOBACCO USER (HF(37))
Match Freq/Age: 0Y - Not Indicated for all ages
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text: Patient is lifetime non-tobacco user, tobacco
education not indicated.
No Match Text:

Health Factor: SMOKELESS TOBACCO USER (HF(38))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: HX OF CHEWING TOBACCO (HF(33))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: CURRENT SMOKELESS TOBACCO USER (HF(39))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

Health Factor: INACTIVATE TOBACCO USE SCREEN (HF(65))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic: AND NOT
Match Text:
No Match Text:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(5))&'(HF(37))&'(HF(65))

Appendix A-8: Distributed Reminders Definitions, cont d

Expanded Apply Logic:

```
(SEX)&(AGE)&'(HF(LIFETIME NON-SMOKER))&'(HF(LIFETIME NON-TOBACCO USER))&'
(HF(INACTIVATE TOBACCO USE SCREEN))
```

VA-WEIGHT

Reminder Type: MEASUREMENT

Print Name: Weight

Related VA-* Reminder:

Reminder Description:

The patient's weight should be documented yearly.

Technical Description:

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month
Sex Specific:
Ignore on N/A:

Frequency for Age Range: 1 year for all ages
Match Text:
No Match Text:

Targeted Result Findings for MEASUREMENT reminder type:

GMRV VITAL TYPE
WEIGHT

Target Result Match Text:

No Match Text No weight measurement on record, please record now.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:

```
(SEX)&(AGE)
```

Expanded Apply Logic:

```
(SEX)&(AGE)
```

Appendix A-9: Distributed Taxonomies

PCE TAXONOMY LIST
NAME

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LOW CODED VALUE	HIGH CODED VALUE	SOURCE FILE

VA-ALCOHOLISM SCREENING		
V79.1	V79.1	ICD DIAGNOSIS
VA-BREAST TUMOR		
174	174.9	ICD DIAGNOSIS
198.81	198.81	ICD DIAGNOSIS
238.3	238.3	ICD DIAGNOSIS
239.3	239.3	ICD DIAGNOSIS
233.0	233.0	ICD DIAGNOSIS
217	217	ICD DIAGNOSIS
610	610.9	ICD DIAGNOSIS
611	611	ICD DIAGNOSIS
611.5	611.5	ICD DIAGNOSIS
611.71	611.72	ICD DIAGNOSIS
611.9	611.9	ICD DIAGNOSIS
675.1	675.14	ICD DIAGNOSIS
757.6	757.6	ICD DIAGNOSIS
922.0	922.0	ICD DIAGNOSIS
793.8	793.8	ICD DIAGNOSIS
V10.3	V10.3	ICD DIAGNOSIS
VA-CERVICAL CA/ABNORMAL PAP		
180	180.9	ICD DIAGNOSIS
198.82	198.82	ICD DIAGNOSIS
233.1	233.3	ICD DIAGNOSIS
795.0	795.0	ICD DIAGNOSIS
VA-CERVICAL CANCER SCREEN		
Q0091	Q0091	CPT
V76.2	V76.2	ICD DIAGNOSIS
Q0060	Q0061	CPT
P3000	P3001	CPT
88150	88150	CPT
91.46	91.46	ICD OPERATION/PROCEDURE
VA-CHOLESTEROL		
G0054	G0054	CPT
83718	83721	CPT
80061	80061	CPT
82465	82470	CPT
83700	83705	CPT
VA-COLORECTAL CA		
154.0	154.8	ICD DIAGNOSIS
197.5	197.5	ICD DIAGNOSIS
230.3	230.4	ICD DIAGNOSIS

Appendix A-9: Distributed Taxonomies, cont d

PCE TAXONOMY LIST
NAME

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LOW CODED VALUE	HIGH CODED VALUE	SOURCE FILE

VA-COLORECTAL CANCER SCREEN V76.41	V76.41	ICD DIAGNOSIS
VA-DIABETES 250	250.9	ICD DIAGNOSIS
VA-EXERCISE COUNSELING V65.41	V65.41	ICD DIAGNOSIS
VA-FLEXISIGMOIDOSCOPY 45.24 45330	45.24 45385	ICD OPERATION/PROCEDURE CPT
VA-FOBT 82270	82273	CPT
VA-HIGH RISK FOR FLU/PNEUMONIA 493.0 496 250.00 429.2 428.0 491.0 044.9 042.0 V42.0 585 V58.1 V66.2 99.52 V67.2	493.91 496 250.9 429.2 428.9 491.9 044.9 043.9 V42.0 585 V58.1 V66.2 99.52 V67.2	ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD OPERATION/PROCEDURE ICD DIAGNOSIS
VA-HIGH RISK FOR TB 044.9 042.0 V60.0 303.0 305.0	044.9 043.9 V60.0 304.90 305.0	ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS
VA-HYPERTENSION 401.0	405.99	ICD DIAGNOSIS
VA-HYPERTENSION SCREEN V81.1 80060	V81.1 80060	ICD DIAGNOSIS CPT
VA-HYSTERECTOMY 68.3	68.9	ICD OPERATION/PROCEDURE

Appendix A-9: Distributed Taxonomies, cont d

PCE TAXONOMY LIST
NAME

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LOW CODED VALUE	HIGH CODED VALUE	SOURCE FILE

VA-INFLUENZA IMMUNIZATION		
V04.8	V04.8	ICD DIAGNOSIS
90724	90724	CPT
Q0034	Q0034	CPT
G0008	G0008	CPT
VA-MAMMOGRAM/SCREEN		
76090	76092	CPT
V76.1	V76.1	ICD DIAGNOSIS
VA-MASTECTOMY		
85.23	85.23	ICD OPERATION/PROCEDURE
85.41	85.48	ICD OPERATION/PROCEDURE
19140	19140	CPT
19160	19160	CPT
19162	19162	CPT
19180	19180	CPT
19182	19182	CPT
19200	19200	CPT
19220	19220	CPT
T1950	T1999	CPT
VA-NUTRITION		
260	260	ICD DIAGNOSIS
261	261	ICD DIAGNOSIS
263	263.2	ICD DIAGNOSIS
263.8	263.8	ICD DIAGNOSIS
263.9	263.9	ICD DIAGNOSIS
264	264.9	ICD DIAGNOSIS
265	265.2	ICD DIAGNOSIS
266	266.9	ICD DIAGNOSIS
267	267	ICD DIAGNOSIS
268	268.9	ICD DIAGNOSIS
269	269.9	ICD DIAGNOSIS
281.1	281.11	ICD DIAGNOSIS
783.0	783.4	ICD DIAGNOSIS
377.33	377.33	ICD DIAGNOSIS
425.7	425.7	ICD DIAGNOSIS
760.4	760.4	ICD DIAGNOSIS
783.6	783.9	ICD DIAGNOSIS
V69.1	V69.1	
VA-OBESITY		
278.0	278.01	ICD DIAGNOSIS
783.1	783.1	ICD DIAGNOSIS
43842	43842	CPT
43846	43846	CPT
44131	44131	CPT
99078	99078	CPT

Appendix A-9: Distributed Taxonomies, cont d

VA-PNEUMOCOCCAL VACCINE			
99.55	99.55	ICD OPERATION/PROCEDURE	
99.59	99.59	ICD OPERATION/PROCEDURE	
G0009	G0009	CPT	
90732	90732	CPT	
V06.6	V06.6	ICD DIAGNOSIS	
VA-PROSTATE CA			
185	185	ICD DIAGNOSIS	
198.82	198.82	ICD DIAGNOSIS	
233.4	233.4	ICD DIAGNOSIS	
PCE TAXONOMY LIST		APR 21,1997 10:58	PAGE 1
NAME	LOW CODED VALUE	HIGH CODED VALUE	SOURCE FILE

VA-PSA	84153	84153	CPT
VA-SAFETY COUNSELING	V65.43	V65.43	ICD DIAGNOSIS
VA-TB/POSITIVE PPD	010.0	018.9	ICD DIAGNOSIS
	795.5	795.5	ICD DIAGNOSIS
VA-TETANUS DIPHTHERIA	90700	90703	CPT
	90711	90711	CPT
	90718	90721	CPT
	99.36	99.38	ICD OPERATION/PROCEDURE
	V03.5	V03.5	ICD DIAGNOSIS
	V03.7	V03.7	ICD DIAGNOSIS
	V06.1	V06.5	ICD DIAGNOSIS
VA-TOBACCO USE	305.1	305.1	ICD DIAGNOSIS
	305.10	305.11	ICD DIAGNOSIS
	V15.82	V15.82	ICD DIAGNOSIS
VA-WEIGHT AND NUTRITION SCREEN	V65.3	V65.3	ICD DIAGNOSIS
	V77.8	V77.9	ICD DIAGNOSIS

Appendix A-10: Sample Health Summaries

04/24/97 10:28
***** CONFIDENTIAL REMTEST SUMMARY *****
FONTAINE,FELIX 546-78-7654 DOB: 08/18/24

----- CM - Clinical Maintenance -----

The following disease screening, immunization and patient education recommendations are offered as guidelines to assist in your practice. These are only recommendations, not practice standards. The appropriate utilization of these for your individual patient must be based on clinical judgment and the patient's current status.

--NEXT-- --LAST--

Cholesterol Screen (Male) N/A
Patient's age (72) is greater than reminder maximum age of 65.
LAB: Date of last cholesterol test unknown.

Fecal Occult Blood Test 07/02/97 07/02/96
2/5/97 Health Factor: ACTIVATE FOBT CANCER SCREEN
7/2/96 Encounter Procedure: 45330-SIGMOIDOSCOPY, DIAGNOSTIC
7/2/96 Encounter Procedure: 82270-TEST FECES FOR BLOOD
FOBT due 5 years after the last sigmoidoscopy.
Final Frequency and Age Range used: 1 year for ages 50 and older.

Flexisigmoidoscopy N/A
2/5/97 Health Factor: INACTIVATE SIGMOIDOSCOPY
7/2/96 Encounter Procedure: 45330-SIGMOIDOSCOPY, DIAGNOSTIC
7/2/96 Encounter Procedure: 82270-TEST FECES FOR BLOOD
Final Frequency and Age Range used: 0Y - Not Indicated for ages 50 and older.

Exercise Education DUE NOW unknown
Final Frequency and Age Range used: 1 year for all ages.

Hypertension Detection DUE NOW unknown
Vitals: Date of last Vitals BP Measurement unknown.
Date of last ICD or CPT coded hypertension screen unknown.
Final Frequency and Age Range used: 2 years for all ages.

Influenza Immunization 07/02/97 07/02/96
7/2/96 Encounter Procedure: 90724-INFLUENZA IMMUNIZATION
Influenza vaccine due yearly in patients ages 65 and older.
Final Frequency and Age Range used: 1 year for ages 65 and older.

Pneumovax DONE 07/01/96
7/1/96 Encounter Procedure: 90732-PNEUMOCOCCAL IMMUNIZATION
Pneumovax due once for patients 65 and over.
Final Frequency and Age Range used: 99Y - Once for ages 65 and older.

Problem Drinking Screen DUE NOW unknown
Screen for alcohol problems yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Appendix A-10: Sample Health Summaries, cont d

04/24/97 10:28

***** CONFIDENTIAL REMTEST SUMMARY *****
FONTAINE,FELIX 546-78-7654 DOB: 08/18/24

Seatbelt and Accident Screen DUE NOW unknown
Seatbelt education due yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Tobacco Use Screen DUE NOW unknown
Tobacco use screen due yearly for all ages.
No history of tobacco use screen on file. Please evaluate tobacco
use and educate if currently in use.
Final Frequency and Age Range used: 1 year for all ages.

Weight and Nutrition Screen DUE NOW unknown
Weight and Nutrition screen due yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Advanced Directives Education DUE NOW unknown
No record of Advanced Directives education/screening on file.
Final Frequency and Age Range used: 99Y - Once for all ages.

Alcohol Abuse Education DUE NOW unknown
Alcohol abuse education due yearly for all ages.
Final Frequency and Age Range used: 1 year for all ages.

Blood Pressure Check DUE NOW unknown
Vitals: Date of last Vitals blood pressure measurement unknown.
No HX of HTN on file. No HX of hypertension presumed.
Final Frequency and Age Range used: 2 years for all ages.

Breast Exam N/A
Patient is the wrong sex for this reminder.

Breast Self Exam Education N/A
Patient is the wrong sex for this reminder.

Digital Rectal (Prostate) Exam DUE NOW unknown
Date of last rectal exam not on file.
Final Frequency and Age Range used: 1 year for ages 40 to 75.

Exercise Education DUE NOW unknown
Exercise education due yearly for all ages.
Final Frequency and Age Range used: 1 year for all ages.

Fecal Occult Blood Test 07/02/97 07/02/96
2/5/97 Health Factor: ACTIVATE FOBT CANCER SCREEN
7/2/96 Encounter Procedure: 45330-SIGMOIDOSCOPY, DIAGNOSTIC
7/2/96 Encounter Procedure: 82270-TEST FECES FOR BLOOD
No HX of colorectal cancer on file - presumed no HX.
Final Frequency and Age Range used: 1 year for ages 50 and older.

Flexisigmoidoscopy N/A
2/5/97 Health Factor: INACTIVATE SIGMOIDOSCOPY
7/2/96 Encounter Procedure: 45330-SIGMOIDOSCOPY, DIAGNOSTIC
Final Frequency and Age Range used: 0Y - Not Indicated for all ages.

Appendix A-10: Sample Health Summaries, cont d

04/24/97 10:28

***** CONFIDENTIAL REMTEST SUMMARY *****
FONTAINE,FELIX 546-78-7654 DOB: 08/18/24

Influenza Vaccine 07/02/97 07/02/96
7/2/96 Encounter Procedure: 90724-INFLUENZA IMMUNIZATION
Influenza vaccine due yearly in patients ages 65 and older.
Final Frequency and Age Range used: 1 year for ages 65 and older.

PPD N/A
Last date of PPD not known.
Patient may be low risk for TB, where PPD may not be indicated.
No HX of TB or positive PPD diagnosis on file.
Final Frequency and Age Range used: 0Y - Not Indicated for all ages.

PSA DUE NOW unknown
Date of last PSA not on file. Please order test or document
historical encounter activity.
Final Frequency and Age Range used: 1 year for ages 50 to 75.

Seat Belt Education DUE NOW unknown
Seat belt education due yearly for all ages.
Final Frequency and Age Range used: 1 year for all ages.

Tobacco Cessation Education DUE NOW unknown
No history of smoking found.
Patient has no history of secondary smoke inhalation.
No history of tobacco education/screen on file. Please evaluate
tobacco use and educate if currently in use.
No history of tobacco use found. Presumed to be former or current
smoker. Please indicate via health factor (Lifetime non-smoker, or
other health factor) if the tobacco education is not indicated.
Final Frequency and Age Range used: 1 year for all ages.

Weight DUE NOW unknown
No weight measurement on record, please record now.
Final Frequency and Age Range used: 1 year for all ages.

DIABETIC FOOT EXAM N/A

----- CR - Clinical Reminders -----

The following disease screening, immunization and patient education
recommendations are offered as guidelines to assist in your practice.
These are only recommendations, not practice standards. The
appropriate utilization of these for your individual patient must be
based on clinical judgment and the patient's current status.

	--NEXT--	--LAST--
Advanced Directives Education	DUE NOW	unknown
Alcohol Abuse Education	DUE NOW	unknown
Exercise Education	DUE NOW	unknown
Seat Belt Education	DUE NOW	unknown
Tobacco Cessation Education	DUE NOW	unknown

* END *

Appendix A-10: Sample Health Summaries, cont d

***** CONFIDENTIAL REMTEST SUMMARY ***** 04/24/97 10:31
OUTPATIENT,EDNA 234-77-6641 DOB: 04/01/44

----- CM - Clinical Maintenance -----

The following disease screening, immunization and patient education recommendations are offered as guidelines to assist in your practice. These are only recommendations, not practice standards. The appropriate utilization of these for your individual patient must be based on clinical judgment and the patient's current status.

Breast Cancer Screen --NEXT-- --LAST--
02/21/99 02/21/97
4/29/96 Health Factor: ACTIVATE BREAST CANCER SCREEN
2/21/97 Encounter Procedure: 76092-MAMMOGRAM, SCREENING
Health Factor comments: Activate health factor comments
History of mammogram/screen on file.
Final Frequency and Age Range used: 2 years for ages 50 to 69.

Pap Smear DUE NOW unknown
Women ages 65 and younger should receive a cervical cancer screen every 3 years.
No record of cervical cancer screen taxonomy on file
Final Frequency and Age Range used: 3 years for ages 65 and younger.

Cholesterol Screen (Female) DUE NOW unknown
Check total cholesterol every 5 years for women ages 45-65.
LAB: Date of last cholesterol test unknown.
Final Frequency and Age Range used: 5 years for ages 45 to 65.

Fecal Occult Blood Test 08/09/01 08/09/96
6/13/95 Encounter Procedure: 45333-SIGMOIDOSCOPY & POLYPECTOMY
8/9/96 Examination: FOBT(CLINIC)
FOBT due 5 years after the last sigmoidoscopy.
Final Frequency and Age Range used: 5 years for ages 50 and older.

Flexisigmoidoscopy 08/09/01 08/09/96
6/13/95 Encounter Procedure: 45333-SIGMOIDOSCOPY & POLYPECTOMY
8/9/96 Examination: FOBT(CLINIC)
Final Frequency and Age Range used: 5 years for ages 50 and older.

Exercise Education DUE NOW unknown
Final Frequency and Age Range used: 1 year for all ages.

Hypertension Detection 08/13/98 08/13/96
8/13/96 Measurement: BLOOD PRESSURE; results - 132/72
Date of last ICD or CPT coded hypertension screen unknown.
Final Frequency and Age Range used: 2 years for all ages.

Influenza Immunization N/A
2/21/97 Encounter Procedure: 90724-INFLUENZA IMMUNIZATION
Influenza vaccine not indicated for patients under 65.
Patient's age (53) is less than reminder minimum age of 65.

Appendix A-10: Sample Health Summaries, cont d

04/24/97 10:31
***** CONFIDENTIAL REMTEST SUMMARY *****
OUTPATIENT, EDNA 234-77-6641 DOB: 04/01/44

----- CM - Clinical Maintenance -----

Pneumovax N/A
8/22/96 Encounter Procedure: 90732-PNEUMOCOCCAL IMMUNIZATION
Patient's age (53) is less than reminder minimum age of 65.

Problem Drinking Screen DUE NOW unknown
Screen for alcohol problems yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Seatbelt and Accident Screen DUE NOW unknown
Seatbelt education due yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Tobacco Use Screen DUE NOW unknown
Tobacco use screen due yearly for all ages.
No history of tobacco use screen on file. Please evaluate tobacco
use and educate if currently in use.
Final Frequency and Age Range used: 1 year for all ages.

Weight and Nutrition Screen DUE NOW unknown
Weight and Nutrition screen due yearly for all patients.
Final Frequency and Age Range used: 1 year for all ages.

Advanced Directives Education DONE 10/17/96
10/17/96 Education: Advanced Directive Screening
Final Frequency and Age Range used: 99Y - Once for all ages.

Alcohol Abuse Education 09/12/97 09/12/96
9/11/96 Encounter Diagnosis: 571.3-ALCOHOL LIVER DAMAGE NOS
Alcohol abuse education due yearly for all ages.
9/12/96 Education: Alcohol Abuse
Final Frequency and Age Range used: 1 year for all ages.

Blood Pressure Check DUE NOW 09/03/96
8/22/96 Problem Diagnosis: 405.99-SECOND HYPERTENSION NEC
9/3/96 Encounter Diagnosis: 401.9-HYPERTENSION NOS
8/13/96 Measurement: BLOOD PRESSURE; results - 132/72
History of hypertension on record. BP due every visit in patients
with HTN.
Final Frequency and Age Range used: 1 day for all ages.

Breast Exam DUE NOW unknown
Date of last breast exam unknown. Please document last exam or
perform today.
Final Frequency and Age Range used: 1 year for ages 40 and older.

Breast Self Exam Education DUE NOW unknown
Date of last breast self exam education not known.
No HX breast cancer presumed.
Final Frequency and Age Range used: 1 year for all ages.

Appendix A-10: Sample Health Summaries, cont d

***** CONFIDENTIAL REMTEST SUMMARY ***** 04/24/97 10:31
OUTPATIENT,EDNA 234-77-6641 DOB: 04/01/44

----- CM - Clinical Maintenance -----

Digital Rectal (Prostate) Exam N/A
Patient is the wrong sex for this reminder.

Exercise Education DUE NOW unknown
Exercise education due yearly for all ages.
Final Frequency and Age Range used: 1 year for all ages.

Fecal Occult Blood Test 08/09/97 08/09/96
6/13/95 Encounter Procedure: 45333-SIGMOIDOSCOPY & POLYPECTOMY
8/9/96 Examination: FOBT(CLINIC)
No HX of colorectal cancer on file - presumed no HX.
Final Frequency and Age Range used: 1 year for ages 50 and older.

Flexisigmoidoscopy 06/13/00 06/13/95
6/13/95 Encounter Procedure: 45333-SIGMOIDOSCOPY & POLYPECTOMY
Final Frequency and Age Range used: 5 years for ages 50 and older.

Influenza Vaccine 02/21/98 02/21/97
9/26/96 Problem Diagnosis: 250.01-DIABETES MELLI W/O COMP TYP I
9/18/96 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
2/21/97 Encounter Procedure: 90724-INFLUENZA IMMUNIZATION
Flu shot due yearly in patients any age that have a high risk for flu
or pneumonia.
Final Frequency and Age Range used: 1 year for all ages.

Mammogram 02/21/99 02/21/97
4/29/96 Health Factor: ACTIVATE BREAST CANCER SCREEN
2/21/97 Encounter Procedure: 76092-MAMMOGRAM, SCREENING
Women ages 50-69 should receive a mammogram every two years.
Health Factor comments: Activate health factor comments
No history of breast cancer/tumor on file.
Final Frequency and Age Range used: 2 years for ages 50 to 69.
8/26/96 Radiology Procedure: 76091-MAMMOGRAM, BOTH BREASTS; MAMMOGRAM
BILAT

PPD N/A
9/11/96 Skin test: PPD
Patient may be low risk for TB, where PPD may not be indicated.
No HX of TB or positive PPD diagnosis on file.
Final Frequency and Age Range used: 0Y - Not Indicated for all ages.

PSA N/A
Patient is the wrong sex for this reminder.

Seat Belt Education DUE NOW unknown
Seat belt education due yearly for all ages.
Final Frequency and Age Range used: 1 year for all ages.

Appendix A-10: Sample Health Summaries, cont d

***** CONFIDENTIAL REMTEST SUMMARY ***** 04/24/97 10:31
OUTPATIENT,EDNA 234-77-6641 DOB: 04/01/44

----- CM - Clinical Maintenance -----

Tobacco Cessation Education DUE NOW unknown
9/25/96 Encounter Diagnosis: 305.1-TOBACCO USE DISORDER
No history of smoking found.
Patient has no history of secondary smoke inhalation.
No history of tobacco education/screen on file. Please evaluate
tobacco use and educate if currently in use.
Patient has a history of tobacco use.
Final Frequency and Age Range used: 1 year for all ages.

Weight 08/13/97 08/13/96
8/13/96 Measurement: WEIGHT; results - 103
Final Frequency and Age Range used: 1 year for all ages.

DIABETIC FOOT EXAM DUE NOW unknown
9/26/96 Problem Diagnosis: 250.01-DIABETES MELLI W/O COMP TYP I
9/18/96 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
Final Frequency and Age Range used: 1 year for all ages.

----- CR - Clinical Reminders -----

The following disease screening, immunization and patient education
recommendations are offered as guidelines to assist in your practice.
These are only recommendations, not practice standards. The
appropriate utilization of these for your individual patient must be
based on clinical judgment and the patient's current status.

	--NEXT--	--LAST--
Exercise Education	DUE NOW	unknown
Seat Belt Education	DUE NOW	unknown
Tobacco Cessation Education	DUE NOW	unknown
Breast Self Exam Education	DUE NOW	unknown

• END *

